



NARODOWA AGENCJA WYMIANY AKADEMICKIEJ

### Wzór wniosku

Poniższy wzór ma na celu wyłącznie prezentację zakresu informacji niezbędnych do wypełnienia wniosku. Układ i wygląd pól we wzorze może nie być tożsamy z wnioskiem w systemie teleinformatycznym NAWA. Wnioski należy składać wyłącznie za pośrednictwem systemu teleinformatycznego NAWA: <https://programs.nawa.gov.pl/>.

Zachęcamy do kontaktu z NAWA przed złożeniem wniosku w systemie:

Dr Joanna Rutkowska  
Tel. 22 390 35 83  
joanna.rutkowska@nawa.gov.pl

|  |
|--|
| <b>POLSKIE POWROTY 2020 EDYCJA COVID -19</b> |
| Call number                                  |

|  |  |
|--|--|
| <b>Application number</b>                      |  |
| <b>Full legal name of applying institution</b> |  |
| <b>Returning Scientist - first name(s)</b>     |  |
| <b>Returning Scientist - last name(s)</b>      |  |
| <b>Total requested funding (NAWA+NCN)</b>      |  |
| <b>Total requested funding NAWA</b>            |  |
| <b>Total requested funding NCN</b>             |  |
| <b>Project start date</b>                      |  |

|                         |  |
|-------------------------|--|
|                         |  |
| <b>Project end date</b> |  |

## General information

This is an application form for the Applicants under the Polskie Powroty 2020 programme edition COVID-19.

Publication of the call for proposals: **15 July 2020**

Deadline for submission of proposals: **31 August 2020, 3.00 PM**

Submission of the proposal after deadline will not be possible.

**Online submission only – hard copies are not required.**

Please read the Programme Regulations and the content of the call carefully before sending the application.

All documents available on [www.nawa.gov.pl](http://www.nawa.gov.pl).

Before submission, please check thoroughly if your application is complete.

## 1. Project – general information

### 1.1 Returning Scientist

|                             |                     |                    |
|-----------------------------|---------------------|--------------------|
| 1.1.1 Academic degree/title | 1.1.2 First name(s) | 1.1.3 Last name(s) |
|                             |                     |                    |
| 1.1.4 Gender                |                     |                    |
| 1.1.5 PESEL                 |                     |                    |

|                                |  |
|--------------------------------|--|
| 1.1.6 Orcid ID (if applicable) |  |
|--------------------------------|--|

### 1.2 Applying institution (Applicant)

|                           |
|---------------------------|
| 1.2.1 Type of institution |
|---------------------------|

|   |                       |                        |            |
|---|-----------------------|------------------------|------------|
| 1.2.2 Full legal name of applying institution |                       |                        |            |
| Registered address:                           |                       |                        |            |
| 1.2.3 Street                                  | 1.2.4 Building number | 1.2.5 Apartment number | 1.2.6 Town |
| 1.2.7 Postal code                             | 1.2.8 REGON           | 1.2.9 NIP              | 1.2.10 KRS |

1.3 Project classification according to the revised field of science and technology classification (OECD classification). More than one indication is possible.  
(Only :1. Natural sciences, 2. Engineering and technology, 3. Medical and Health sciences)

|  |
|--|
|  |
|--|

#### 1.4 Keywords

Please enter the keywords which in your opinion best describe the scope of your research proposal.

|  |
|--|
|  |
|--|

#### 1.5 Project abstract and title

Project abstract should contain a short description of the research planned to be carried out under the project, the objectives of the research proposal and how they will be achieved. NAWA reserves the right to disseminate the project abstract during and after the evaluation process.

Please be advised that the project abstract will be used by NAWA while contacting the potential experts responsible for reviewing the proposal.

##### 1.5.1 Project title in English:

|                                     |
|-------------------------------------|
| max 500 characters including spaces |
|-------------------------------------|

##### 1.5.2 Project title in Polish:

|                                     |
|-------------------------------------|
| max 500 characters including spaces |
|-------------------------------------|

### 1.5.3 Project abstract in English:

|                                       |
|---------------------------------------|
| max 2,000 characters including spaces |
|---------------------------------------|

### 1.5.4 Project abstract in Polish:

|                                       |
|---------------------------------------|
| max 2,000 characters including spaces |
|---------------------------------------|

## 1.6 Project duration NAWA

|  |  |
|--|--|
| 1.6.1 Project start date                 |  |
| 1.6.2 Project end date                   |  |
| 1.6.3 Duration of the project in months: |  |

## 1.7 Project duration NCN

|  |                                      |
|--|--------------------------------------|
| 1.7.1 Project start date                 | Same as 1.6.1                        |
| 1.7.2 Project end date                   | No longer than 18 months after 1.6.1 |
| 1.7.3 Duration of the project in months: |                                      |

## 2. Returning Scientist

|                                      |  |
|--------------------------------------|--|
| 2.1 Academic degree/title            |  |
| 2.2 Academic degree/title award date | [kalendarz: nie później niż 31 grudnia 2016] |

+ 2.3 Scan of a document confirming that the Returning Scientist holds a scientific degree/title.

|   |  |
|---|--|
| 2.4 Country of residence                    |  |
| 2.5 Date of permanent departure from Poland | [kalendarz: nie później niż 31 grudnia 2017] |

## 2.6 Scientific biography of the Returning Scientist

|  |  |
|--|--|
| 2.6.1 education, educational background, course of studies   |  |
| 2.6.2 academic and scientific activity, including the Returning Scientist subsequent places of employment  |  |
| 2.6.3 total number of citations of all publications to date, excluding self-citations (preferred source: the Web of Science Core Collection or Scopus) |  |
| 2.6.4 the H index (preferred source: the Web of Science Core Collection or Scopus)   |  |
| 2.6.5 a brief description of currently conducted research  |  |
| 2.6.6 information on internships, awards, patents, membership in scientific societies and organisations and other important achievements               |  |

2.7 A list of publications including a maximum of 10 most notable works published not earlier than in 2010.

| Authors | Title | Bibliometric data | For journals with impact factor- the current five-year IF of the journal or the | The number of citations of individual publication, excluding self-citations (in | The link to the electronic version of publication (where possible) | Indicate if the publication meets the requirements set out in point 2.1.1.5 |
|---------|-------|-------------------|---|---|--|---|
|         |       |                   |   |   |  |   |

|  |  |  |                  |  |  |                              |
|--|--|--|------------------|--|--|------------------------------|
|  |  |  | SiteScore value) | line with the Web of Science Core Collection or Scopus database) |  | of the Programme Regulations |
|  |  |  |                  |  |  | Check Box                    |

## 2.8 List of completed and ongoing research projects

| Title | Source of financing | Implementation period | Time commitment if project is parallel to Polish Returns project (in %) | Returning Scientist's role in the project |
|-------|---------------------|-----------------------|---|---|
|       |                     |                       |   |   |

2.9 Scans of three selected publications from the list given in biography. In case of publication in a language other than English, an abstract in English should be included. In case of a monograph, please attach a file containing the cover page, editorial page, table of contents and a selection of extracts containing the author's most important theses - not more than 20 pages in total.

+ Scans of three selected publications

## 2.10 Returning Scientist's employment abroad

Please describe the Returning Scientist's employment abroad. Please be advised that according to the terms and conditions of the programme during his or her stay abroad the Returning Scientist will have to be engaged in scientific work for at least 2 years at a university, research institute, scientific institute or in a research department of a foreign enterprise based outside of Poland- not earlier than in 2015.

Please attach the documents confirming the Returning Scientist's employment abroad in English.

|  |  |
|--|--|
| Place of employment  |  |
| Start date of employment   |  |
| End date of employment   |  |
| Short description of the position, tasks, responsibilities, etc. |  |

+ Documents to confirm the Returning Scientist's employment abroad - not earlier than in 2015, according to requirements set out in point 3.4.5 of the Programme Regulations

### 2.11 Planned employment in Poland

|   |  |
|---|--|
| 2.11.1 Name of the institution in which the Returning Scientist will be employed (according to the statutes of the institution) |  |
|   |  |
| 2.11.2 Faculty/division/team (according to the organisational structure of the institution)                                     |  |
|   |  |
| 2.11.3 Position in which the Returning Scientist will be employed (according to the internal regulations of the institution)    |  |
|   |  |
| 2.11.4 Returning Scientist's basis of employment during the first year of project implementation                                | 2.11.5 Returning Scientist's basis of employment during the next years of project implementation |

### Part 3. Applying institution (Applicant)

|   |
|---|
| 3.1 The organisational capacity and experience of the Applicant (institution) within the scope of projects, including in the field of international cooperation |
| <i>[max 5,000 characters including spaces]</i>  |
| <i>[The description should include the following information:</i>   |

- *scope of activity,*
- *ongoing and implemented research projects,*
- *Applicant's achievements,*
- *any other relevant details.]*

3.2 Details of how the Applicant plans to accommodate the Returning Scientist. Description of how the Applicant is going to prepare the workplace and ensure that the Returning Scientist will be able to access equipment and research infrastructure (including a list of necessary equipment / infrastructure / large infrastructure).

*[max 5,000 characters including spaces]*

*[The Applicant should detail here, inter alia:*

- *the scientific/didactic base, and research equipment, which will be available to the Returning Scientist,*
- *the scope of administrative support for the Returning Scientist,*
- *the workplace for the Project Group,*
- *the scope of support in the proposed project context (i.e. experience, resources and scope of involvement of the unit in which the project is to be implemented),*
- *support for the activities planned by the researcher (networking, participation in external conferences, necessary equipment, reagents, etc.).]*

3.3 Details of practical relevance of employing the Returning Scientist and creating the Project Group by him or her for strengthening the Applicant's (institution) capacity, including in the field of international scientific or academic cooperation.

*[max 5,000 characters including spaces]*

*[The Applicant should detail here how the employment of the Returning Scientist and how research /scientific activities planned by him/her (and members of the Project Group) are going to affect the entity's development and its national and international potential taking into account the challenges associated with the COVID-19 epidemic. ]*



#### Part 4. Project description

##### 4.1 Project description, including:

- activities planned during project implementation: planned research/development work, implementations, didactic/mentoring activities, dissemination and other,
- state-of-the-art and objectives;
- planned results;
- methodology;
- use of resources (incl. large research infrastructure),
- cooperation with other scientific institutions or enterprises, including international cooperation.

[max 50,000 characters including spaces]

##### *[Detailed description of the planned research including:*

- *general objectives,*
- *specific objectives,*
- *analysis of the needs which the project is meant to address (reference to the current situation in a given field / sector / institution / career stage / level of education),*
- *degree of innovation of planned research,*
- *proposed tools and research methods,*
- *planned results and how they are to be achieved (what specific results should be expected during project implementation),*
- *risk analysis,*
- *expected benefits for the Polish science and the Applicant (impact on the development of the discipline, society, economy) taking into account the challenges associated with the COVID-19 epidemic.*
- *use of large research infrastructure owned by the Applicant.]*

4.2 Do you plan to apply for research component financed by the National Science Centre?

yes

no

[w przypadku zaznaczenia 'yes']:

4.3 Research component financed by the National Science Centre

[max 5,000 characters including spaces]

*[Detailed planned research/development work and costs of scientific research with justification.]*

4.4 Applying for other research grants to funding institutions in Poland and abroad

[max 5,000 characters including spaces]

*[Planned applications addressed to the funding institutions (separate for Polish and foreign institutions):  
name of the institution funding the research, name of the call for proposals, planned date of application, etc. ]*

4.5 Practical relevance of employing the Returning Scientist and creating the Project Group by him or her for the development of science in Poland, including the expected impact on the scientific field/discipline represented by the Returning Scientist.

[max 5,000 characters including spaces]

+ 4.6 Additional information: references and graphics, illustrations, charts, etc.

## **Part 5. Project Group description**

5.1 Do you plan to create a Project Group?

yes

no

[w przypadku zaznaczenia 'no']:

5.2 Why are there no plans to create a Project Group? Please provide a justification.

|  |
|--|
|  |
|--|

[w przypadku zaznaczenia 'yes']:

5.2 How long will the Project Group work (in months)?

|                   |
|-------------------|
| 5.2.1 Start date: |
|-------------------|

|                 |
|-----------------|
| 5.2.2 End date: |
|-----------------|

5.3 Short description of the Project Group – goals, task, etc.

|  |
|--|
|  |
|--|

5.4 Planned number of Project Group members:

|  |
|--|
|  |
|--|

5.5 Description of the Project Group members

Please describe a scientific profile, required research skills and tasks to be carried out by each Project Group member (only members whose remuneration is to be covered by NAWA)

|   |
|---|
| 5.5.1 Profile of the 1 Project Group member |
|   |
| 5.5.2 Profile of the 2 Project Group member |

|   |
|---|
|   |
| 5.5.3 Profile of the ... Project Group member |
|   |

5.6 Does the applying institution plan to enlarge the Project Group based on its own resources? If yes, please provide information about the number and scientific profile of relevant people.

|  |
|--|
|  |
|--|

### Part 6. Project schedule

Please give the dates of the most important activities/tasks in the project (milestones)– up to 20 activities/tasks.

| No | Planned activity/task | Start date |  | End date |
|----|-----------------------|------------|--|----------|
| 1. |                       |            |  |          |
| 2. |                       |            |  |          |
| 3. |                       |            |  |          |
| 4. |                       |            |  |          |

### Part 7. Budget

#### 7.1 Budget - requested funding

Experienced scientist

7.1.1 Please tick this box if the Returning Scientist fulfils the criteria to be classified as experienced scientist established in the Programme Regulations.

**7.1.2 Returning Scientist remuneration**

| Category of cost                 | Annual rate | Method of total cost calculation (FTE, duration of employment) | Total remuneration (PLN) |
|----------------------------------|-------------|--|--------------------------|
| Returning Scientist remuneration |             |  |                          |

**7.1.3 Project Group members remuneration**

**7.1.4 How long will the Project Group work (in months)?**

**7.1.5 Planned remuneration for the Project Group cannot exceed:**

| Category of cost              | Annual rate | Method of total cost calculation (FTE, duration of employment) | Total remuneration (PLN) |
|-------------------------------|-------------|--|--------------------------|
| 7.1.6 Project Group member 1  |             |  |                          |
| 7.1.7 Project Group member 2  |             |  |                          |
| 7.1.8 Project Group member... |             |  |                          |
| <b>Total (PLN)</b>            |             |  |                          |

**7.1.17 Resettlement costs**

| Category of cost | Flat rate | Please select |
|------------------|-----------|---------------|
|------------------|-----------|---------------|



NARODOWA AGENCJA WYMIANY AKADEMICKIEJ

|                                 |                   |  |
|---------------------------------|-------------------|--|
| Returning Scientist alone       | <b>12 000 PLN</b> |  |
| Returning Scientist with family | <b>20 000 PLN</b> |  |

**7.1.18 Adaptation and preparation of the workplace and research facilities (only if there is no research component)**

| Category of cost   | Method of total cost calculation | Total (PLN)                      |
|--------------------|----------------------------------|----------------------------------|
|                    |                                  |                                  |
|                    |                                  |                                  |
|                    |                                  |                                  |
|                    |                                  |                                  |
|                    |                                  |                                  |
| <b>Total (PLN)</b> |                                  | [suma; nie więcej niż 50 000 zł] |

**7.1.19 Research component financed by the National Science Centre in accordance with Annex 6 to the Programme Regulations**

| Category of cost   | Method of total cost calculation | Total (PLN)                       |
|--------------------|----------------------------------|-----------------------------------|
|                    |                                  |                                   |
|                    |                                  |                                   |
|                    |                                  |                                   |
|                    |                                  |                                   |
|                    |                                  |                                   |
| <b>Total (PLN)</b> |                                  | [suma; nie więcej niż 200 000 zł] |

**7.1.20 Total requested funding (PLN) NAWA:**

**7.1.21 Total requested funding (PLN) NCN:**

## 7.2 Additional budget – Applicant’s contribution

The applying institution may provide its own contribution to the project, however it is not obligatory.

yes

no

[w przypadku zaznaczenia ‘yes’]:

| Category of cost | Method of total cost calculation | Total cost for the category |
|------------------|----------------------------------|-----------------------------|
|                  |                                  |                             |
|                  |                                  |                             |
|                  |                                  |                             |
| <b>Total</b>     |                                  |                             |

## Part 8. Payment schedule (NAWA)

The payment schedule is prepared by the Applicant on the basis of anticipated financing needs during project implementation on the provision that the first payment constitutes 15% of requested funding.

| Year         | Amount  |
|--------------|---|
| 2020         |   |
| 2021         |   |
| 2022         |   |
| 2023         |   |
| 2024         |   |
| 2025         |   |
| 2026         |   |
| <b>Total</b> | <i>[The sum of payments must be equal to the total requested funding indicated in point 7.1.20]</i> |

## Part 9. Attachments

+

9.1 A commitment to employ the members of the Project Group signed by a person authorised to represent the Applicant (template of the document is attached to the Programme Regulations).

+

9.2 A statement from the Returning Scientist (template of the document is attached to the Programme Regulations).

+

9.3 A statement on the absence of state aid (template of the document is attached to the Programme Regulations).

## Part. 10 Contact information

### 10.1. Legal representative of the applying institution

|              |                      |                     |                 |
|--------------|----------------------|---------------------|-----------------|
| 10.1 Title   | 10.1.2 First name(s) | 10.1.3 Last name(s) | 10.1.4 Position |
|              |                      |                     |                 |
| 10.1.5 Email | 10.1.6 Phone number  |                     |                 |
|              |                      |                     |                 |

+ 10.1.7 A scanned copy of a document confirming the authorisation of a representative of the Applicant to act on its behalf (compulsory in case the representation is not based on registration documents)

### 10.2. Person submitting the application in the NAWA ICT system

|              |                      |                     |                 |
|--------------|----------------------|---------------------|-----------------|
| 10.2.1 Title | 10.2.2 First name(s) | 10.2.3 Last name(s) | 10.2.4 Position |
|              |                      |                     |                 |
| 10.2.5 Email | 10.2.6 Phone number  |                     |                 |
|              |                      |                     |                 |

+ 10.2.7 Scan of documents confirming that the person submitting the application is authorised to represent the Applicant

### 10.3. Contact person (applying institution)



|       |               |              |          |
|-------|---------------|--------------|----------|
| Title | First name(s) | Last name(s) | Position |
|       |               |              |          |
| Email | Phone number  |              |          |
|       |               |              |          |

#### 10.4 Returning Scientist

|                                   |                                   |                                   |
|-----------------------------------|-----------------------------------|-----------------------------------|
| 10.4.1 Title                      | 10.4.2 First name(s)              | 10.4.3 Last name(s)               |
| [pole skopiowane z 1 cz. Wniosku] | [pole skopiowane z 1 cz. Wniosku] | [pole skopiowane z 1 cz. Wniosku] |
| 10.4.4 Email address              | 10.4.5 Phone number               | 10.4.6 Phone number               |
|                                   |                                   |                                   |

### Part 11. Declarations

11.1 Świadoma/y odpowiedzialności karnej wynikającej z przepisów Kodeksu karnego, dotyczącej poświadczania nieprawdy co do okoliczności mającej znaczenie prawne, będąc upoważnioną/nym do złożenia niniejszego oświadczenia, w imieniu Wnioskodawcy ubiegającego się o finansowanie Projektu oświadczam, że:

- informacje zawarte w powyższym wniosku są zgodne ze stanem faktycznym;
- planowane koszty wskazane we wniosku nie są i nie będą finansowane ze środków pochodzących z innych źródeł;
- Wnioskodawca nie zalega z wpłatami z tytułu należności budżetowych oraz z opłacaniem składek na ubezpieczenia społeczne i zdrowotne;
- Wnioskodawca wywiązał się ze zobowiązań wobec NAWA wynikających z umów podpisanych w innych programach;
- Wnioskodawca posiada zdolność finansową do realizacji Projektu w ramach Programu;
- Wnioskodawca nie ma wszczętego postępowania układowego lub likwidacyjnego, jego upadłość albo utrata osobowości prawnej nie zostały ogłoszone, nie zawiesił działalności gospodarczej, nie podlega postępowaniu sądowemu dotyczącemu tych kwestii, ani nie znajduje się w podobnej sytuacji wynikającej z podobnej procedury przewidzianej w ustawodawstwie krajowym.

11.2 Oświadczam, że Wnioskodawca nie prowadzi działalności opodatkowanej podatkiem VAT w obszarze, którego dotyczy powyższy Projekt.

W związku z powyższym, realizując powyższy Projekt, Wnioskodawca nie może w żaden sposób odzyskać poniesionego kosztu podatku VAT, którego wysokość została zawarta w budżecie Projektu.

Jednocześnie oświadczam, że w przypadku zmiany okoliczności wymienionych wyżej i uzyskania statusu podatnika VAT Wnioskodawca/Beneficjent powiadomi o tym Narodową Agencję Wymiany Akademickiej bez zbędnej zwłoki.

11.3 Oświadczam, że w przypadku uzyskania finansowania NAWA Wnioskodawca złoży do NCN wniosek dotyczący finansowania komponentu badawczego.

11.3 Zgoda na przetwarzanie danych osobowych

Potwierdzam zrealizowanie wobec osób, których dane zostały przekazane w ramach niniejszego wniosku, obowiązku informacyjnego - poprzez przekazanie zasad ochrony danych osobowych, wskazanych w Regulaminie Programu.

## **THE REVISED FIELD OF SCIENCE AND TECHNOLOGY CLASSIFICATION**

### **1. Natural sciences**

#### **1.1 Mathematics**

- Pure mathematics, Applied mathematics; Statistics and probability<sup>1</sup>;

#### **1.2 Computer and information sciences**

- Computer sciences, information science and bioinformatics (hardware development to be 2.2,

social aspect to be 5.8);

#### **1.3 Physical sciences**

- Atomic, molecular and chemical physics (physics of atoms and molecules including collision,

interaction with radiation; magnetic resonances; Moessbauer effect); Condensed matter physics

(including formerly solid state physics, superconductivity); Particles and fields physics; Nuclear physics; Fluids and plasma physics (including surface physics); Optics (including laser optics and

quantum optics), Acoustics; Astronomy (including astrophysics, space science);

#### **1.4 Chemical sciences**

- Organic chemistry; Inorganic and nuclear chemistry; Physical chemistry, Polymer science, Electrochemistry (dry cells, batteries, fuel cells, corrosion metals, electrolysis); Colloid chemistry; Analytical chemistry;

#### **1.5 Earth and related Environmental sciences**

- Geosciences, multidisciplinary; Mineralogy; Palaeontology; Geochemistry and geophysics; Physical geography; Geology; Volcanology; Environmental sciences (social aspects to be 5.7);
- Meteorology and atmospheric sciences; climatic research;
- Oceanography, Hydrology, Water resources;

#### **1.6 Biological sciences (Medical to be 3, and Agricultural to be 4)**

- Cell biology, Microbiology; Virology; Biochemistry and molecular biology; Biochemical research methods; Mycology; Biophysics;
- Genetics and heredity (medical genetics to be 3); reproductive biology (medical aspects to be 3);  
developmental biology;
- Plant sciences, botany;
- Zoology, Ornithology, Entomology, Behavioural sciences biology;
- Marine biology, freshwater biology, limnology; Ecology; Biodiversity conservation;
- Biology (theoretical, mathematical, thermal, cryobiology, biological rhythm), Evolutionary biology; other biological topics;

#### **1.7 Other natural sciences**

### **2. Engineering and technology**

## **2.1 Civil engineering**

- Civil engineering; Architecture engineering; Construction engineering, Municipal and structural

engineering; Transport engineering;

## **2.2 Electrical engineering, Electronic engineering, Information engineering**

- Electrical and electronic engineering; Robotics and automatic control; Automation and control

systems; Communication engineering and systems; telecommunications; Computer hardware and

architecture;

## **2.3 Mechanical engineering**

- Mechanical engineering; Applied mechanics; Thermodynamics;
- Aerospace engineering;
- Nuclear related engineering; (nuclear physics to be 1.3);
- Audio engineering, reliability analysis;

## **2.4 Chemical engineering**

- Chemical engineering (plants, products); Chemical process engineering;

## **2.5 Materials engineering**

- Materials engineering; Ceramics; Coating and films; Composites (including laminates, reinforced

plastics, cermets, combined natural and synthetic fibre fabrics; filled composites); Paper and wood; textiles; including synthetic dyes, colours, fibres; (nanoscale materials to be 2.10; biomaterials to be 2.9);

## **2.6 Medical engineering**

- Medical engineering; Medical laboratory technology (including laboratory samples analysis; diagnostic technologies); (Biomaterials to be 2.9 [physical characteristics of living material as related to medical implants, devices, sensors]);

## **2.7 Environmental engineering**

- Environmental and geological engineering, geotechnics; Petroleum engineering, (fuel, oils), Energy and fuels; Remote sensing; Mining and mineral processing; Marine engineering, sea vessels; Ocean engineering;

## **2.8 Environmental biotechnology**

- Environmental biotechnology; Bioremediation, diagnostic biotechnologies (DNA chips and biosensing devices) in environmental management; environmental biotechnology related ethics;

## **2.9 Industrial biotechnology**

- Industrial biotechnology; Bioprocessing technologies (industrial processes relying on biological

agents to drive the process) biocatalysis, fermentation; bioproducts (products that are manufactured using biological material as feedstock) biomaterials, bioplastics, biofuels, bioderived

bulk and fine chemicals, bio-derived novel materials;

## **2.10 Nano-technology**

- Nano-materials [production and properties];
- Nano-processes [applications on nano-scale]; (biomaterials to be 2.9);

## **2.11 Other engineering and technologies**

- Food and beverages;
- Other engineering and technologies;

## **3. Medical and Health sciences**

### **3.1 Basic medicine**

- Anatomy and morphology (plant science to be 1.6); Human genetics; Immunology; Neurosciences (including psychophysiology); Pharmacology and pharmacy; Medicinal chemistry; Toxicology; Physiology (including cytology); Pathology;

### **3.2 Clinical medicine**

- Andrology; Obstetrics and gynaecology; Paediatrics; Cardiac and Cardiovascular systems; Peripheral vascular disease; Hematology; Respiratory systems; Critical care medicine and

Emergency medicine; Anaesthesiology; Orthopaedics; Surgery; Radiology, nuclear medicine and

medical imaging; Transplantation; Dentistry, oral surgery and medicine; Dermatology and venereal diseases; Allergy; Rheumatology; Endocrinology and metabolism (including diabetes,

hormones); Gastroenterology and hepatology; Urology and nephrology; Oncology;

Ophthalmology; Otorhinolaryngology; Psychiatry; Clinical neurology; Geriatrics and

gerontology; General and internal medicine; other clinical medicine subjects; Integrative and complementary medicine (alternative practice systems);

### **3.3 Health sciences**

- Health care sciences and services (including hospital administration, health care financing); Health policy and services;

- Nursing; Nutrition, Dietetics;

- Public and environmental health; Tropical medicine; Parasitology; Infectious diseases; epidemiology;

- Occupational health; Sport and fitness sciences;

- Social biomedical sciences (includes family planning, sexual health, psycho-oncology, political

and social effects of biomedical research); Medical ethics; Substance abuse;

### **3.4 Medical biotechnology**

- Health-related biotechnology; Technologies involving the manipulation of cells, tissues, organs

or the whole organism (assisted reproduction); Technologies involving identifying the

functioning of DNA, proteins and enzymes and how they influence the onset of disease and maintenance of well-being (gene-based diagnostics and therapeutic interventions

(pharmacogenomics, gene-based therapeutics); Biomaterials (as related to medical implants, devices, sensors); Medical biotechnology related ethics;

### **3.5 Other medical sciences**

- Forensic science
- Other medical sciences

#### **4. Agricultural sciences**

##### **4.1 Agriculture, Forestry, and Fisheries**

- Agriculture; Forestry; Fishery; Soil science; Horticulture, viticulture; Agronomy, plant breeding

and plant protection; (Agricultural biotechnology to be 4.4)

##### **4.2 Animal and Dairy science**

- Animal and dairy science; (Animal biotechnology to be 4.4)
- Husbandry; Pets;

##### **4.3 Veterinary science**

##### **4.4 Agricultural biotechnology**

- Agricultural biotechnology and food biotechnology; GM technology (crops and livestock), livestock cloning, marker assisted selection, diagnostics (DNA chips and biosensing devices for

the early/accurate detection of diseases) biomass feedstock production technologies,

biopharming; agricultural biotechnology related ethics;

##### **4.5 Other agricultural sciences**

#### **5. Social sciences**

##### **5.1 Psychology**

- Psychology (including human - machine relations);
- Psychology, special (including therapy for learning, speech, hearing, visual and other physical

and mental disabilities);

##### **5.2 Economics and Business**

- Economics, Econometrics; Industrial relations;
- Business and Management;

##### **5.3 Educational sciences**

- Education, general; including training, pedagogy, didactics;
- Education, special (to gifted persons, those with learning disabilities);

#### **5.4 Sociology**

- Sociology; Demography; Anthropology, ethnology,
- Social topics (Women's and gender studies; Social issues; Family studies, Social work);

#### **5.5 Law**

- Law, criminology, penology;

#### **5.6 Political science**

- Political science; public administration; organisation theory;

#### **5.7 Social and economic geography**

- Environmental sciences (social aspects); Cultural and economic geography; Urban studies (Planning and development); Transport planning and social aspects of transport (transport engineering to be 2.1);

#### **5.8 Media and communications**

- Journalism; Information science (social aspects); Library science; Media and socio-cultural communication;

#### **5.9 Other social sciences**

- Social sciences, interdisciplinary;
- Other social sciences;

### **6. Humanities**

#### **6.1 History and Archaeology**

- History (history of science and technology to be 6.3, history of specific sciences to be under the respective headings); Archaeology;

#### **6.2 Languages and Literature**

- General language studies; Specific languages; General literature studies; Literary theory; Specific





NARODOWA AGENCJA WYMIANY AKADEMICKIEJ

literatures; Linguistics;

### **6.3 Philosophy, Ethics and Religion**

- Philosophy, History and philosophy of science and technology;
- Ethics (except ethics related to specific subfields); Theology; Religious studies;

### **6.4 Arts (arts, history of arts, performing arts, music)**

- Arts, Art history; Architectural design; Performing arts studies (Musicology, Theater science, Dramaturgy); Folklore studies;
- Studies on Film, Radio and Television;

### **6.5 Other humanities**