Information event
17.3.2020
General information

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We are at the international top in our profile fields:

Our focus areas and profile fields steer the University’s development in the coming years.

The Research Units are in charge of research.

Our focus institutes, Biocenter, Eudaimonia, Infotech and Kvantum, promote research co-operation that crosses faculty boundaries in our multidisciplinary focus areas. Arctic research and co-operation networks are coordinated by the Thule Institute.

The University of Oulu’s research supports the Arctic agenda with its multidisciplinary expertise. We work actively in networks that co-operate in matters related to Arctic education and research.

Focus areas, where our science-based expertise meets global challenges:

- Sustainable materials and systems
- Changing climate and northern environment
- Digitalization and smart society
- Lifelong health
- Understanding humans in change
The purpose and aim of RAE2020

The purpose of RAE2020 is to
- reveal and confirm the quality and impact of research
- confirm the functional structures of research units for scientific research
- assist in recognising future research prospects
- support renewal.

The aim of RAE2020 is to produce information that can be used for
- enhancing quality of research
- supporting long-term strategic decision-making at the Unit, Faculty and University levels.

The assessment will give vital input to the strategy process.

RAE2020 also offers an opportunity for the Research Units to plan how to
- Achieve excellence in their field of research
- Stimulate the multidisciplinary research approaches for building their excellence.
The goals of RAE2020 at the University level

Explore the structure, achievements and plans of Research Units from the perspective of research:

- The primary scientific profiling area and possible secondary area(s) or no connection with the profiling areas
- The primary focus area and possible secondary area(s) or no connection with the focus areas of research
- Future plans
- Internal co-operation within the Unit
- Co-operation of Units inside or between the profiling areas
- Has the critical mass been achieved and does the researcher structure allow the continuity of the Unit
- Use of infrastructures
- National and international networking.

In addition, the Units are mirrored with the renewed strategy of the Faculties and University.
The units of evaluation are 57 Research Units including SGO, KSI and KUC.
RAE2020 supports Research Units (RUs)

- In identifying their research strengths, weaknesses and development potential
- In defining the most urgent and relevant measures needed for improvements in the working environment
- To reach their full potential in scientific research.

RAE2020 also provides the University with an overview of its research activities and the results will be used to develop these activities further.
The next step of RAE2020 for Research Units: Self-evaluation report

The next step of RAE2020 is the preparation of Self-Evaluation Report including

1. Critical Self-Evaluation
2. Scientific Action Plan

Research Units are encouraged to engage academic staff from all research career stages (from doctoral students to professors) to participate.

That way of preparing ensures multi-voiced views on research development.

Please note: Preparing the Self-Evaluation Report is a demanding process – sufficient time must therefore be set aside for it by the Research Units.
Bibliometric analyses supporting the RAE2020 self-evaluation

Bibliometrics typically measures the quantity, quality and impact of scientific publications.

The bibliometric analyses for the Research Units were produced by CWTS (Centre for Science and Technology Studies), Leiden University and University Oulu Library.

In addition the CWTS Leiden produces bibliometric analyses of:
- The University of Oulu’s scientific publications
- Publications of Each Faculty
Evaluation of the Research Units 1/2

Three international evaluation panels are invited to evaluate and give feedback to the RUs on their Self-Evaluation Report.

The research fields of the three panels is based on the research council division of the Academy of Finland:

1. Biosciences, Health and the Environment
2. Culture and Society
3. Natural Sciences and Engineering

There will be maximum 15 members / panel.

Based on the pre-registration of the Research Units, the number of self-evaluation reports will be almost equal in each panel.
### Research fields of RAE2020 panels

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<thead>
<tr>
<th>Panel for Culture and Society</th>
<th>Panel for Natural Sciences and Engineering</th>
<th>Panel for Biosciences Health and the Environment</th>
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<tbody>
<tr>
<td>• philosophy</td>
<td>• energy technology</td>
<td>• biochemistry and biophysics</td>
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<tr>
<td>• history and archaeology</td>
<td>• physics</td>
<td>• biomedicine</td>
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<td>• educational sciences</td>
<td>• geosciences and physical geography</td>
<td>• ecology and evolutionary biology</td>
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<td>• linguistics</td>
<td>• chemistry</td>
<td>• pharmacy</td>
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<tr>
<td>• law</td>
<td>• mechanical engineering and manufacturing technology</td>
<td>• public health, environmental health and occupational health sciences</td>
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<td>• psychology</td>
<td>• medical engineering</td>
<td>• clinical medicine, dental science and veterinary medicine</td>
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<td>• social sciences</td>
<td>• mathematics and statistics</td>
<td>• agricultural, forest and food sciences</td>
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<td>• art research</td>
<td>• materials science and engineering</td>
<td>• genetics</td>
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<td>• economics</td>
<td>• process and chemical engineering</td>
<td>• nutritional, sport and nursing sciences</td>
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<tr>
<td>• theology</td>
<td>• construction and municipal engineering, architecture</td>
<td>• cell biology, molecular biology and microbiology</td>
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<td>• political sciences</td>
<td>• electrical engineering and electronics</td>
<td>• environmental sciences</td>
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<tr>
<td>• communication sciences</td>
<td>(incl. communications and automation engineering)</td>
<td>• systems biology and bioinformatics related to the above fields</td>
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<td>• sociological environmental research and human geography</td>
<td>• computer sciences, information technology</td>
<td>• other research into biosciences, health and the environment, including multidisciplinary research</td>
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<td>• other research into the humanities and social sciences, including multidisciplinary research</td>
<td>• astronomy</td>
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<td></td>
<td>• biotechnology, bioinformatics and environmental technology related to the above fields</td>
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<tr>
<td></td>
<td>• other research into the natural sciences and engineering, including multidisciplinary research</td>
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Evaluation of the Research Units 2/2

You should note that the external expert panels will use **as information sources** the
- Self-Evaluation Report
- bibliometric analyses
- face-to-face meeting with the RU

**when evaluating the**
- state of the research
- research environment
- proposed development actions.

When writing your Self-Evaluation Report, keep in mind that the expertise areas of the multi-disciplinary panel members may not correspond precisely to the disciplines of the University.
When considering the topics of the Self-Evaluation Report

Do not only focus on the outcomes of the RU but also describe relevant actions, e.g. researcher recruitment.

The evaluation period of the Self-Evaluation Report is from 2013 onwards.

Support your conclusions by referring to the
– results from the bibliometric analyses
– other aggregated statistical data for the RU and
– any other information source that you find relevant.

Please notice to focus on the level of the RU.
Thank you! Questions?