



Narodowe Centrum Badań Jądrowych
National Centre for Nuclear Research
ŚWIERK

INSTITUTION: National Centre For Nuclear Research (NCBJ)

CITY: Otwock - Świerk

POSITION: **Assistant professor (Specialist for probabilistic safety assessment of nuclear power plants)** the Laboratory of Nuclear Energy and Environmental Studies (UZ3) of the Department of Complex Systems

DISCIPLINE: environmental engineering, mining and energy

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EXPIRES: 20.12.2023

WEBSITE: <https://www.ncbj.gov.pl/en/praca/assistant-professor-specialist-probabilistic-safety-assessment-nuclear-power-plants-uz3-duz>

KEY WORDS: environmental engineering, nuclear power plants

The National Center for Nuclear Research (NCBJ) is one of the biggest research institutes in Poland. Wide research activity takes place at NCBJ, especially basic research in nuclear physics and related fields, reactor research and development of nuclear fuel, safety of nuclear installations and many others.

Currently, we are looking for a person for a position in Division of Nuclear Energy and Environmental Studies (UZ3)

**Assistant professor
(Specialist for probabilistic safety assessment of nuclear power plants)
in the Laboratory of Nuclear Energy and Environmental Studies (UZ3)**

Work location: Otwock - Świerk - in the outskirts of Warsaw with daily transport services provided.

Job position at the MANHAZ Center for Hazard Analysis, implementing projects in the field of reliability and safety analysis of complex industrial and nuclear installations, including nuclear power plants, new generation reactor technologies, accelerator and fusion installations, as well as cogeneration systems.

Role and Responsibilities:

- Conducting research on the causes, effects, and scenarios of accidents in nuclear power plants.
- Development of probabilistic models for nuclear power plants accident scenarios.
- Analysis of statistical data on the failure frequency of reactor systems and components.
- Participation in projects supporting the Polish Nuclear Power Program.
- Analytical work in the field of NCBJ activity: the creation of substantive documents and materials (reports, presentations, notes), and translations.
- Preparation of materials for scientific articles and conference presentations.

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- Performing other activities assigned by the Head of the Division and other NCBJ superiors.
- Performing duties in accordance with the Work Regulations in force at the Institute.
- Observance of state and official secrets, work discipline, occupational health and safety regulations, fire regulations, and rules of protection against ionizing radiation.

Requirements:

- PhD in physics or technical sciences.
- Documented scientific activity in Probabilistic Safety Assessment of nuclear facilities, in particular with applications in the new reactor technologies.
- Documented participation or leading research or R&D projects.
- Organization and analytical skills for scientific activity.
- Capabilities in self-directed and team work.
- Good knowledge of engineering software for PSA analysis (e.g., SAPHIRE, RiskSpectrum, ReliaSoft).
- Advanced English skills in speaking and writing.

Additional assets:

- Documented experience in research works on High Temperature Gas-cooled Reactors (HTGR)
- Programming in Python or MATLAB.

We offer:

- Employment in one of the largest research Institute in Poland.
- Excellence with full research autonomy and being part of a diverse and supportive team of professionals.
- External and internal trainings in hard and soft skills as well as participation in conferences
- A chance to make ones' own mark by participation in the creation of interesting and ambitious projects.
- Work in Polish and international networks with research institutes and industrial companies.
- Personal and professional development with diverse range of tasks and challenges.
- Employment based on an employment contract.
- Stable working conditions without overtimes and friendly atmosphere.
- Additional annual salary and other social security benefits.
- Company transport from Warsaw to NCBJ and backwards (more: <https://bus.swierk.pl/rozklad-jazdy/>).
- Funding for external and internal trainings.
- Working with cutting edge technology at one of the largest supercomputer centers in Poland.

Required documents:

- A scan/copy of degree diploma
- Curriculum Vitae
- Full publication list
- Scientific self-report, containing a description of the candidate's scientific achievements, publications, patents and implementations, description of other achievements (conference presentations, internships, etc.)
- Two letters of reference to be sent directly by the authors of the letters before the application deadline.
- Any other possible documents that might influence the assessment.
- A brief description of the most important scientific achievements and scientific outlook (max. 2 pp)

Contact: prof. Mariusz Dąbrowski, mariusz.dabrowski@ncbj.gov.pl, tel. 22 273 14 30

All applications should be sent by e-mail to: mariusz.dabrowski@ncbj.gov.pl

As an attachment to your application please sign and enclose the following declarations:

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I agree for my personal data included in the application documents to be processed by National Centre for Nuclear Research with its registered office in Otwock, 7 Andrzej Sołtan Street, 05-420 Otwock, for a period of 12 months from their submission, in order to carry out future recruitment processes.

Information in accordance with Article 13 RODO on the processing of personal data:

1. The Personal Data Controller of your personal data is the National Centre for Nuclear Research (hereinafter referred to as Controller or NCBJ) with its registered office in Otwock, 7 Andrzej Sołtan Street, 05-400 Otwock.
2. Your personal data will be processed for recruitment purposes on the basis of applicable law, including the Labour Code. Data not required by law, provided by you in your documents, will be processed on the basis of your consent. Your consent is given by the transfer of this data.
3. The full content of the information clause of Article 13 RODO is available at <https://www.ncbj.gov.pl/en/information-clause-personal-data-processing>



HR EXCELLENCE IN RESEARCH

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