

## Postdoctoral

Ecole/Institution/Société:

**Reykjavik University / Háskólinn í Reykjavík, Iceland / Reykjavík**

Discipline:

**Electrical Engineering**

Type d'emploi::

**Full-time**

Date de publication:

**2022-04-27**

Personne à contacter:

**If you wish to apply for this position, please specify that you saw it on AKATECH.tech**

### **Postdoctoral and Ph.D. Positions in Antenna and Microwave Design Automation**

#### **POSITION RESPONSIBILITIES**

The positions will involve carrying out research in the area of design automation, with the emphasis on surrogate-based modeling and optimization, with the primary application area in high-frequency electronics (antennas, RF/microwave, photonics).

The research includes development and implementation of numerical modeling procedures, optimization algorithms (single- and multi-objective design, uncertainty quantification, global optimization), performing numerical experiments involving electromagnetic/circuit simulators, as well as development of the relevant software.

#### **QUALIFICATIONS:**

- Postdoc positions (high-frequency design):
- PhD in Electrical Engineering or related fields.
- Design experience in the area of antenna and/or microwave engineering as well as experience with CST Microwave Studio are essential.
- Working knowledge of other simulation/design environments (Sonnet em, Keysight ADS/Momentum, HFSS) is a plus.
- Matlab programming skills, as well as working knowledge of numerical analysis and optimization techniques will be considered an asset.
- Postdoc positions (modeling/optimization):
- PhD in Electrical Engineering, Computer Science, Applied Mathematics or related fields
- Background and working knowledge of numerical modeling and optimization techniques as well as fluency in Matlab programming are essential.
- Specialization in a particular field ([e.g.](#), uncertainty quantification, surrogate modeling, global optimization, machine learning) is a plus.
- Working knowledge of high-frequency design will be considered an asset.
- MSc degree in Electrical Engineering or Computer Science.
- Fluency in Matlab programming is a must.
- Background and experience in one of the following fields will be considered an asset: antenna/microwave design, numerical optimization methods, machine learning.

**Applications should be submitted through the University's online applications website**

<https://jobs.50skills.com/ru/is> and should include the following documents:

- Curriculum vitae
- A list of publications.
- A list of three references
- Copies of relevant certificates and diplomas.
- Any other relevant information the applicant wishes to supply.

Review of applications begins immediately and continues until the positions have been filled.

Further information can be obtained using the following contact data:

Slawomir Koziel, Professor

Engineering Optimization & Modeling Center

### **Department of Engineering**

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Reykjavík University has around 3.700 students and 250 faculty and employees in addition to numerous adjunct faculty in two schools: Technology and Social Sciences. We offer a welcoming and stimulating environment in which to work and live. The University is centrally located in Reykjavík, the capital city of Iceland.

The role of Reykjavik University is to create and disseminate knowledge to enhance the competitiveness and quality of life for individuals and society, guided by good ethics, sustainability and responsibility. Education and research at RU are based on strong ties with industry and society. We emphasize interdisciplinary collaboration, international relations and entrepreneurship.

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