Job ID. RICAM140DOC223

The Johann Radon Institute for Computational and Applied Mathematics (RICAM) of the Austrian Academy of Sciences (OeAW), Austria's leading non-university research and science institution is now offering a

PHD STUDENT POSITION (F/M/X)

in the Geometry in Simulations Group

(part-time, 30h per week)

for a duration of 3 years, with **February 01st, 2024** as the tentative starting date. An extension of up to one year is possible.

The position is within the framework of the FWF-funded project P 37177 "***Isogeometric multi-patch shells and multigrid solvers***" led by Thomas Takacs, and is affiliated with the "Geometry in Simulations" Group at RICAM, located in Linz, Austria.

The selected candidate will work on isogeometric discretizations for fourth order partial differential equations over planar domains and surfaces. The goal is to facilitate the simulation of thin shells that are represented as multi-patch spline surfaces, with applications ranging from structural engineering to biology. The candidate is expected to combine techniques of geometric modeling with numerical methods for PDEs.

Your profile:

- Master's degree in mathematics or a closely related field, such as engineering or computer science, with a focus on numerical analysis and/or computer-aided geometric design.
- Strong background in at least one of the following topics: Mathematical modeling for solid mechanics, numerical analysis of PDEs and spline-based geometric modeling.
- Strong motivation to work in a collaborative and interdisciplinary research team and in publishing results in internationally refereed journals of high quality.
- Strong English skills.
- Programming skills.

Our offer:

- Excellent opportunities to work in a lively research environment and collaborate with international experts in the fields related to the project.
- Learning and working on topics at the cutting-edge of scientific knowledge.
- An annual gross salary of € 34.606,85, according to the collective agreement of the Austrian Academy of Sciences.

Applications with CV, including personal and scientific data, studies certificates, and a motivation letter (compiled in a single PDF) should be sent by e-mail to thomas.takacs@oeaw.ac.at **no later than November 30th, 2023.** For further information, please contact Thomas Takacs.

FWF Der Wissenschaftsfonds.

The Austrian Academy of Sciences (OeAW) pursues a non-discriminatory employment policy and values equal opportunities, as well as diversity. Individuals from underrepresented groups are particularly encouraged to apply.

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