

Job ID. RICAM141DOC223

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 01<sup>st</sup>, 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 multigrid solvers for isogeometric discretizations of fourth order partial differential equations over planar domains and surfaces. The goal is to develop multigrid solvers for thin plates and shells, which are represented as multi-patch splines, and analyze their properties. The candidate is expected to combine techniques of geometric modeling with numerical methods for PDEs.

**Your profile:**

- Master's degree in mathematics.
- Strong background in numerical analysis of PDEs and/or spline-based geometric modeling, computer-aided geometric design.
- 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](mailto:thomas.takacs@oeaw.ac.at) **no later than November 30<sup>th</sup>, 2023**. For further information, please contact Thomas Takacs.