

Job ID: RICAM123DOC223

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 in Applied Mathematics, is offering a

**PHD STUDENT POSITION (F/M/X)**  
*in Inverse Problems and Mathematical Imaging*  
(part-time, 30h per week)

for a duration of 3 (1+2) years, with **February 01<sup>st</sup> 2024** as a starting date. For candidates with exceptional qualifications, an extension can be considered.

The position is within the framework of the FWF-funded project P: 36942-N "*Resolvent Analysis of Subwavelength Resonators*" led by Mourad Sini, and is affiliated with RICAM, located in Linz/Austria.

**Your tasks:**

The selected candidate will work on wave propagation in resonating media. Motivation and applications come from inverse problems in imaging, as contrast agents based imaging and therapy modalities, and mathematical aspects of material sciences, as the effective medium theory. We are looking for candidates with a solid background in spectral and scattering theory using integral equation methods and PDE-based tools.

**Your profile:**

- Completed a master's degree in mathematics or applied mathematics
- Strong background in the analysis of linear PDEs and integral equations
- Strong motivation to work in mathematical research at an internationally competitive level and in publishing results in internationally refereed journals of high quality
- Strong skills of English

**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 scientific knowledge
- An annual gross salary of € 34.606,85 according to the salary scheme of the Austrian Academy of Sciences

Applications with personal and scientific data, a letter of motivation, and a current CV should be sent by e-mail to [mourad.sini@oeaw.ac.at](mailto:mourad.sini@oeaw.ac.at) (mentioning Job ID: RICAM123DOC223) **until November 25<sup>th</sup>, 2023**. For further information, please contact Mourad Sini at [mourad.sini@oeaw.ac.at](mailto:mourad.sini@oeaw.ac.at).



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.*