

Job ID: RICAM062PD222

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

**POSTDOC POSITION (F\*M)**  
*in Inverse Problems and Mathematical Imaging*  
(full-time, 40h per week)

for a duration of 12 months, with a negotiable starting date (but preferably September 2022). For candidates with exceptional qualifications, an extension can be considered.

The position is within the framework of the FWF-funded project P:30756 "Mathematical Analysis of Imaging Modalities using Nanoparticles as Contrast Agents" led by Mourad Sini, and is affiliated with RICAM, located in Linz/Austria.

The selected candidate will work on the time-domain inverse acoustic problem of reconstructing the mass density and the bulk modulus using bubbles as contrast agents. This will strongly extend the work currently done in the time-harmonic regime. If this step goes well, she/he will consider the photo-acoustic imaging modality using an injected cluster of nanoparticles. This will also extend a work currently done using single nanoparticles.

**Your profile:**

- Completed doctorate in mathematics or applied mathematics.
- Strong background in fields related to PDEs, harmonic analysis and asymptotic analysis.
- Experience 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.
- An annual gross salary of € 56.861, according to the salary scheme of the Austrian Science Fund ([FWF](#)).

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: RICAM062PD222. The position will remain open until filled.

For further information, please contact Mourad Sini at [mourad.sini@oeaw.ac.at](mailto:mourad.sini@oeaw.ac.at).

*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.*