



OeAW - Discovering the future

As a central non-university institution for science and research, the **Austrian Academy of Sciences - OeAW** has the task of "**promoting science in every respect**". Founded in 1847 as a learned society, it now has over 760 members and around 1,800 employees dedicated to innovative basic research, interdisciplinary knowledge exchange and the dissemination of new insights. The OeAW initiates and maintains partnerships worldwide and represents Austria in international scientific organizations; it cooperates with numerous institutions in the scientific field in order to actively **shape the research landscape**.



Postdoc (f/m/x) in the Inverse Problems and Mathematical Imaging Group

Job ID: RICAM098PD226

The Austrian Academy of Sciences (OeAW), Austria's leading non-university research and science institution, is offering a position as

Your Tasks

The position is available for a duration of up to eight months. Place of employment is Linz. The working languages are English and German.

The hired person will work on the FWF-funded project Resolvent Analysis of Subwavelength Resonators (P36942), led by Mourad Sini. The project concerns the mathematical analysis of wave propagation in media containing high-contrast resonators, including acoustic bubbles, dielectric and plasmonic nanoparticles, and elastic cavities. The research will focus on spectral and resolvent analysis with uniform estimates with respect to small-scale and contrast parameters, and rigorous asymptotic descriptions of resonant fields. Depending on the candidate's background, related directions may include effective-medium limits, time-domain behavior, and applications to inverse problems and mathematical imaging. The work is primarily analytical and will draw on methods from partial differential equations, operator theory, and asymptotic analysis.

For more information contact Mourad Sini at mourad.sini@oeaw.ac.at.

Your Profile

- PhD in Mathematics or a closely related field.
- Strong background in partial differential equations and mathematical analysis, in particular: spectral theory, scattering theory and asymptotic analysis with high interest in wave propagation and resonant media.
- The ability to conduct independent research and collaborate within an international team.
- A high level of competence in oral and written English.

Our Offer

- Excellent opportunities to work in a lively research environment and collaborate with international experts in the fields related to the project.

- The minimum annual gross salary for this position is EUR 70.167,44 (full-time based), in accordance with the collective agreement of the Austrian Academy of Sciences (ÖAW). For part-time employment, the salary will be adjusted on a pro rata basis in line with the agreed working hours.

APPLY NOW

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.

Contact

Mourad Sini | Mourad.Sini@oeaw.ac.at

RICAM | 4020 Linz, Austria

Österreichische Akademie der Wissenschaften | Austrian
Academy of Sciences | <https://www.oeaw.ac.at/>

