The **Vienna School of Mathematics (VSM)** is a joint graduate school of the mathematics faculties of the **University of Vienna** and the **TU Wien**. The VSM is devoted to top-level PhD education in all branches of mathematics. It fosters intra- and interdisciplinary scientific cooperation and networking among students and advisors and aims at increasing the international visibility of the Vienna area as a center for mathematics.

The VSM currently announces a PhD position in the area of

## Degree structures, reducibilities, and foundational theories
## (TU Wien, Supervisor: D. Rossegger)

*We offer one PhD position in the area of computability theory and its interactions with other areas of mathematical logic. Possible PhD projects should be in the scope of one of the following topics. (1) Scott analysis, in particular the Scott analysis of theories relevant in the study of foundations of mathematics; (2) interactions between different degree classes arising from definability notions; or (3) effective descriptive set theory and descriptive set theoretic properties of equivalence relations and sets arising in computability theory. The concrete PhD project will be developed with the successful applicant, taking into account their strengths and interests.*

The advertised position is for three years, funded by one of the supervisor's FWF grants (10.55776/PIN1878224, 10.55776/PAT4699225). It is associated with the Institute of Discrete Mathematics and Geometry of the **Technical University of Vienna** in the Research Group on Computational Logic led by Prof. Matthias Baaz. The successful candidate will become a member of the Vienna School of Mathematics and is expected to actively contribute to its activities. The extent of employment is 30 hours per week amounting to an annual gross salary of approximately € 39.000 (net € 28.900) according to FWF guidelines. The start date of the position is flexible but should not be after September 1, 2026.

### Application Requirements and Procedure

The candidates must have a master's degree (or equivalent) in mathematics at the moment the PhD position starts. The application documents should contain a one-page letter of motivation, the scientific CV with a publications list, and higher education certificates/diplomas sent directly to dino.rossegger@tuwien.ac.at, if possible in a single PDF file. At the end of the letter of motivation, the contact data for at least one academic reference should be included. The deadline for applications is **December 31, 2025.**