



UNIVERSITÄT  
HEIDELBERG  
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SEIT 1386

# Open PhD Positions

## Research topic: ribosome formation *in vitro*

Two pre-doctoral positions (salary TV-L E 13/2) are available at Heidelberg University Biochemistry Center (BZH) as part of an ERC Advanced Grant (see also [https://www.uni-heidelberg.de/presse/news2017/pm20170407\\_ed-hurt-receives-erc-advanced-grant.html](https://www.uni-heidelberg.de/presse/news2017/pm20170407_ed-hurt-receives-erc-advanced-grant.html)). In the funded project, entitled “Encapsulated Eukaryotic Ribosome Assembly”, we study the earliest steps during eukaryotic ribosome assembly, focusing on

- 1) Development of *in vitro* assays to reveal the transition from the 90S pre-ribosome to the earliest pre-40S particle, exploiting the thermostable nature of the 90S pre-ribosome from a eukaryotic thermophile.
- 2) Systematic search for ribosome biogenesis intermediates in *Chaetomium thermophilum* that mark the 90S>pre-40S transition. This will also require generation of dominant-negative mutants in *Chaetomium thermophilum*, which map in 90S factors in order to exploit them for isolation and structural characterization of novel types of pre-ribosomal particles.

Applicants should be highly motivated scientists with experience in biochemistry, molecular biology or structural biology. Please email your CV, statement of research interests and contact information of references to:

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