



RUHR EXPLORES SOLVATION

RESOLV

Understanding and Design of Solvent Controlled Processes

Application Guidelines for a RESOLV GSS Stipend Extension (For a further 1.5 years of funding)

Please note:

No financial commitments by RESOLV can be made after 31.12.2018.

To be submitted to the RESOLV Office (resolv@rub.de). Please note that this application should be submitted no later than 15 months after the project started

(Document Text: English only, please send as one document)

NB. Only the RESOLV PIs and PSs are eligible to submit applications for the extension of a GSS PhD Stipend

Document Header:

(Please fill in the information of your project application)

Version of Proposal Guideline:	2016-PhD_ext-001
Date:	
Name of Applicant: <i>(Member of RESOLV)</i>	
Name of Doctoral Student:	
Title of Current Research Project:	
Allocation to Research Area(s) and Cross-Linking Topics: <i>(Please indicate Research Area A, B, and/or C; as well as the name of the Cross-linking Topic Category, if applicable)</i>	
Team Members of the Project: <i>(Please also indicate if other PIs/PSs and/or Members of the IF Solvation Science are involved in your Research Project)</i>	
2 PhD Advisors	
Comments:	
Reference Number for Submitted Proposal: <i>(To be filled in by RESOLV Office)</i>	

Layout of Document Body:

- 1. Please include a copy of the original project proposal “RESOLV Project Proposal for GSS PhD Stipends”**
- 2. Please include a copy of your “Individual Training Schedule”**
- 3. Summary of the main achievements of the first funding period (up to 0.5 pages)**
- 4. Integration of project into the RESOLV framework (up to 0.5 pages)**
- 5. Detailed progress report of the first funding period (up to 6 pages)**
(Should include the scientific objectives, methods employed, and preliminary results)
- 6. Project plan of the second funding period (up to 2 pages)**
(Should include aims and goals of the next funding period)
- 7. Proposed changes to original proposal**
(Changes to the original project description and any future changes. Please include changes to the integration of the project into RESOLV, RESOLV partners, IF cooperation partners, etc.)
- 8. Patents, publications, and conference contributions**
(Where applicable)
- 9. International Work Experience**
*(Please state the name and address of the institute in which you would like to do your International Work Experience and the dates (if available; NB. the year **must** be specified) of the internship. Confirmation that the partner institute is willing to approve your internship is also required.)*
- 10. Guaranty of financing:**
(Please include an informal letter that you guarantee to continue the financing and supervision of the respective PhD student in the case that the PhD thesis is not finished before 31.12.2018.)

Students of the Graduate School of Chemistry and Biochemistry please note that points 3 to 6 of this report can double as point “F. Project development and execution report” on your GSCB Course Completion Form. Please use a different cover sheet.

Rules of the GSS PhD Stipend

11. Funding period

The project will be funded for a further 1.5 years if positively evaluated by the RESOLV committee. Funding will include one PhD Stipend and a fixed project grant for other costs (refer to Table 1 for further details).

Please note that the stipend for a particular **candidate** will be financed for a maximum of 3 years. Also note that the stipend will expire if a suitable candidate is not found within 6 months after the project has been positively evaluated. The PI/PS is then eligible to submit a new proposal to the RESOLV office if desired.

Table 1: Project Funding

English	Deutsch
<i>Project Funds</i>	<i>Beantragte Projektmittel</i>
PhD Stipend:	Doktorandenstipendium:
Basic Stipend rate: 1.365 EUR per month	„Stipendiengrundbetrag“: 1.365 EUR monatlich
Rate for other expenses and travel costs: 103 EUR per month	„Mittel für Sach- und Reisekosten in Höhe von 103,- EUR monatlich (Sachkostenzuschuss)“
Travel Cost Reimbursement	Reisekosten
Up to 1.500 EUR per annum for the duration of the stipend	Bis zur 1.500 EUR pro Jahr für die Dauer des Stipendiums
Project Grant “other costs category”	Sachmittelzuschuss zum beantragten Projekt
Fixed project funds of max. 4,200 EUR p.a. for groups working in a theoretical field and 8,400 EUR p.a. for groups working in an experimental field will be granted per project and position occupied. If the position is occupied during the course of the year the project funds amount to 1/12th of 4,200 EUR or 8,400 EUR for each month.	Antragsteller/innen erhalten eine Sachmittelpauschale in Höhe von max. 4,2 K€ p.a. (für theoretisch arbeitende Gruppen) bzw. 8,4 K€ (für experimentell arbeitende Gruppen) für jeden bewilligten Projektantrag und besetzte Stelle/Stipendium. Bei Stellenbesetzung während des laufenden Kalenderjahres wird die Sachmittelpauschale für jeden Monat auf 1/12 von 4.200 € bzw. 8.400 € festgesetzt.
Please note the special regulations for the spending of project funds in 2017 (see RESOLV Intranet -> Sachmittel).	Bitte beachten Sie die besonderen Abrechnungsrichtlinien für Sachmittel im Jahr 2017 (siehe RESOLV Intranet -> Sachmittel).

12. Reporting and active contribution to RESOLV

The candidate is expected to complete the GSS Training Schedule and participate in the activities of the GSS.

I am also aware that the project leaders are expected to actively participate in the annual RESOLV Workshop and seminars.

13. Acknowledgment

The contributions to conferences (oral or poster presentations) must include the RESOLV Logo (can be downloaded on the Solvation Science Intranet: <http://www.ruhr-uni-bochum.de/solvation/intranet/>) and acknowledge the Cluster of Excellence RESOLV (EXC 1069).



In the acknowledgement of papers resulting from scientific work within the framework of RESOLV the following sentence must be used: „This work is supported by the Cluster of Excellence RESOLV (EXC 1069) funded by the Deutsche Forschungsgemeinschaft.“

Signature of Applicant

Glossary:

Titles of Research Areas:

Research Area A: Understanding and Exploiting Solvation in Chemical Processes

A-1: Van der Waals Complexes and Hydrogen Bonds: Solvating Pre-Reactive Complexes

A-2: Non-Conventional Solvents: Ionic Liquids and Supercritical Fluids

A-3: Solvation of Ion Pair Intermediates: Steering Chemical Reactions

A-4: Solvation of Non-Conventional Molecules: Radicals and Other Open Shell Species

Research Area B: Connecting Solvation Dynamics with Biomolecular Function

B-1: Understanding Hydration Dynamics

~~**B-2:** Solvent and Osmolyte Effects on the Formation and Dynamics of Peptide Secondary and Supersecondary Structures (entfällt)~~

B-3: Protein Interactions and Aggregation: Influence of Solvents and Co-Solvents

B-4: Enzymatic Reaction Mechanisms and the Influence of Co-Solutes and Co-Solvents

Research Area C: Ion Solvation and Charge Transfer at Interfaces

C-1: Complex Liquid/Solid Interfaces: Coordination, Ad/Desorption, and Defects

C-2: Liquid/Soft Matter Interfaces: Function by Structuring the Solvent

C-3: Electrodes at Work: From Polarization to Electron Flow to Electrochemistry

~~**C-4:** Ultrahigh Ion Concentrations: Solvent-Deficient Systems and Competition for Solvent (entfällt)~~

C-5: Heterogeneously Catalyzed Liquid-Phase Redox Reactions: Mechanisms and Structure-Activity Relationships

Titles of Cross-linking Topic Categories:

1. Solvation Shells and Interfacial Water
2. Ultra-High Concentrations and Crowding
3. Charged Solutes and Electrodes
4. Designer Solvents
5. Desolvation and Resolvation
6. Ion Pairs and Zwitterions