

Application for a membership in the *integrated Graduate School Solvation Science (iGSS)* within the research network RESOLV

Please fill in the information below and attach the following documents for a complete application:

- Application Form – this completed form, signed
- Research proposal – one page, single-spaced in Arial 11-pt font, written by the candidate outlining the proposed project with special emphasis on solvation science aspects
- Curriculum Vitae
- Copies of translated certificates and transcripts of records of qualification for higher education/ university entrance and all university exams (bachelor's and/or master's/diploma degree)
- Two letters of reference - in English, should be submitted separately to igss@rub.de
- Proof or certificate of language proficiency

Please submit your full application as one PDF to the iGSS Office (igss@rub.de).

1. Personal details and academic qualification

Version of application form:	2022-igss_v1
Name of applicant (<i>surname, first name</i>):	
Date of birth (<i>dd/mm/yyyy</i>):	
Nationality:	
Gender:	
Private address of applicant , <i>please indicate your street, house number, postal code, town and country:</i>	
Email address:	
Phone number:	
Current academic status:	
Grade and date of bachelor's degree , <i>if your bachelor's degree was not yet obtained, please indicate here your expected date of graduation and your current grade:</i>	
Institution where bachelor's degree was awarded (<i>name, town, country</i>):	
Explanation of grading system , <i>please indicate the best and the worst possible grade in the grading system used by the university where you obtained your bachelor's degree:</i>	

Grade and date of master's degree (or equivalent), if your master's degree was not yet obtained, please indicate here your expected date of graduation and your current grade:	
Institution where master's degree (or equivalent) was awarded (name, town, country):	
Explanation of grading system, please indicate the best and the worst possible grade in the grading system used by the university where you obtained your master's degree (or equivalent):	
English skills, please indicate the level of proficiency (basics, good, fluent):	
Other language skills, please indicate the language(s) and the level of proficiency (basics, good, fluent):	
(Preferred) RESOLV research area, please refer to the glossary below:	
(Preferred) supervisor(s) from the list of RESOLV PIs/PSs, please refer to the RESOLV homepage:	
(Preferred) second supervisor from the list of RESOLV PIs/PSs, please refer to the RESOLV homepage:	
(Preferred) starting date of doctoral studies:	

Type of membership

RESOLV funded

associated

2. Letter of Motivation (up to 0.5 page)

3. List of publications

Date and signature of applicant

4. Glossary:

Titles of research areas:

Research area I: Local solvent fluctuations in heterogeneous systems

I-1: Local thermodynamics and solvent dynamics

I-2: Local polarity, pH and dipolar fluctuations

I-3: Local electrochemistry and solvent-driven electrocatalysis

Research area II: Solvent control of chemical dynamics and reactivity

II-1: Solvation of reactive species

II-2: Solvent control of selectivity

II-3: Establishing new chemical processes utilizing CO₂-based solvent mixtures

II-4: Solvent control of reactivity in bioinspired artificial systems

Research Area III: Solvation under extreme conditions

III-1: Tuning reactions with high pressure

III-2: Cryosolvation and cryochemistry

III-3: Restricted solvation and solvent effects in confined spaces