

## 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](mailto:igss@rub.de)
- Proof or certificate of language proficiency

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

### 1. Personal details and academic qualification

Version of application form:	2021-igss_v1
Name of applicant (surname, first name):	
Date of birth (dd/mm/yyyy):	
Nationality:	
Gender:	
Private address of applicant, please indicate your street, house number, postal code, town and country:	
Email address:	
Phone number:	
Current academic status:	
Grade and date of bachelor's degree, if your bachelor's degree was not yet obtained, please indicate here your expected date of graduation and your current grade:	
Institution where bachelor's degree 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 bachelor's degree:	

<b>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:</b>	
<b>Institution where master's degree (or equivalent) was awarded (name, town, country):</b>	
<b>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):</b>	
<b>English skills, please indicate the level of proficiency (basics, good, fluent):</b>	
<b>Other language skills, please indicate the language(s) and the level of proficiency (basics, good, fluent):</b>	
<b>(Preferred) RESOLV research area, please refer to the glossary below:</b>	
<b>(Preferred) supervisor(s) from the list of RESOLV PIs/PSs, please refer to the RESOLV homepage:</b>	
<b>(Preferred) second supervisor from the list of RESOLV PIs/PSs, please refer to the RESOLV homepage:</b>	
<b>(Preferred) starting date of doctoral studies:</b>	

**2. Letter of Motivation** (up to 0.5 page, 500 characters max.)

**3. List of publications**

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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 CO<sub>2</sub>-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