

# Guidelines to the GSS Training Schedule

The Graduate School Solvation Science (GSS) is part of the Cluster of Excellence RESOLV. The GSS was established in 2012 and offers a three-year structured graduate programme that combines cutting-edge research with a structured curriculum of lectures, colloquia, and workshops, centered on all areas of solvation science.

GSS members complete an Individual Training Schedule that can be downloaded in the GSS intranet. Please make sure to download the correct version of the Training Schedule. On the Training Schedule you find a section "Approved" for each part of your Training. To approve your credit points a signature in the corresponding field on your Training Schedule is required. After the completion of your Training Schedule you get a certificate for the successful completion of your GSS Doctoral Training from the RESOLV Office.

The GSS Doctoral Training GSS comprises the following parts:

## Research-related Training

### [Participation in Interdisciplinary Lecture Series in Solvation Science](#)

The Interdisciplinary Lecture Series are the RESOLV Colloquia where high-ranked international experts in the field of Solvation Science present their work.

The participation in at least two RESOLV Colloquia per semester is required in all three years of the PhD studies. All RESOLV Colloquia will be announced by email via the gss-members mailing list. There will be a list of participation handed round in each RESOLV Colloquium. The GSS Science Manager approves the participation on the Training Schedule.

### [Participation in GSS Summer School](#)

RESOLV organized an annual GSS Summer School that takes place in the week after Whitsuntide. The GSS Summer School offers Keynotes of international speakers and introductory lectures of RESOLV PIs/PSs as well as Advanced Modules with hands-on practice. All GSS members as well as international researchers and students are invited to the GSS Summer School so that it is a great opportunity to establish international collaborations.

The Participation in at least one GSS Summer School is required during the PhD studies. Participants get a certificate of attendance for the Summer School from the RESOLV Office. The GSS Science Manager approves the attendance on the Training Schedule.

### [Organization of GSS Summer School \(for members who joined before 01.09.2014\)](#)

GSS members support the organization of the GSS Summer School e.g. by giving suggestions for Keynote speakers, organizing hand-ons practice in the Advanced Modules or helping with the general organization of the School. The GSS Science Manager compiles an organization team for the Summer School and asks GSS members to join the team.

The Organization of one GSS Summer School is required for GSS members that joined the GSS before 01.09.2014. The GSS Science Manager approves the credit points for the Summer School Organization on the Training Schedule.

### Defense of Graduate Project at Autumn Solvation Workshop

GSS members defend their project at the annual GSS Workshop, which takes place in Autumn (September or October). The GSS is an internal Workshop – all GSS members and PIs/PSs of RESOLV are invited to participate. The aim of this Workshop is to give feedback to the GSS members already at an early stage of their PhD project. GSS members should present the main idea and an outline of their PhD project in the first year of their PhD study.

The presentation of the PhD project at the GSS Workshop is required to complete the Training Schedule. The GSS Science Manager approves the credit points for the defense on the Training Schedule.

### Participation in the Autumn Solvation Workshop

In addition to the defense of their project at the annual GSS Workshop GSS members participate in the GSS Workshop in another year of their PhD. The focus is to get an overview of the research of other GSS members and to establish collaborations within RESOLV.

The participation in the GSS Workshop is required to complete the Training Schedule. The GSS Science Manager approves the credit points for participation on the Training Schedule.

### Introductory Lecture to Solvation Science (for members who joined after 01.09.2014)

GSS members participate in an introductory lecture to Solvation Science, if possible in the first year of their PhD studies. In winter semester 2013/14 Prof. Weingärtner held an introductory lecture to Solvation Science. In winter semester 2014/15 Prof. Lars Schäfer gives the lecture “Biomolecular Simulation: Understanding Experiments at the Molecular Level” at an introductory level. The lecture covers theoretical as well as experimental aspects of Solvation Science and takes place on Thursday afternoon.

The attendance of an introductory Lecture to Solvation Science is required for GSS members that joined the GSS after 01.09.2014. The lecturer approves the active participation in the lecture and/or in the exercises on the Training Schedule.

### Individual Lecture based on Individual Training Plan

GSS members develop an Individual Training Plan with their supervisors that points out their individual needs for further scientific development. This Training Plan includes advice concerning the choice of an individual lecture. This lecture should cover topics which are important for the PhD project and which were not yet covered by the master courses. GSS members that joined before 01.09.2014 can choose the “Introductory Lecture to Solvation Science” as Individual Lecture.

The attendance of an Individual Lecture is required for GSS members. The lecturer approves the active participation in the lecture and/or in the exercises on the Training Schedule.

## Reviewed Publications/Patents

GSS members publish their work in peer-reviewed journals or as patents. GSS members and their supervisors send the information about publication to the RESOLV Office so that it can be included in the RESOLV Database.

The authorship for two peer-reviewed papers or patents is required to complete the GSS Training Schedule - at least one paper in preparation and one accepted paper. The supervisor approves the authorship for two publications on the Training Schedule and the GSS member sends the information about published papers/patents to the RESOLV Office.

## Thesis Advisory Committee (TAC) Meetings (for members who joined after 01.01.2014)

The TAC comprises the first and second PhD supervisor. The TAC meetings give the GSS members the opportunity for scientific exchange with their supervisors. TAC meetings take place three times in the first year, two times in the second year and one time in the third year of the doctoral studies.

TAC meetings are required for GSS members that joined after 01.01.2014. The supervisor approves the TAC meetings on the GSS Training Schedule.

## Training in generic skills

### Training in generic skills – Workshop of choice

GSS members are trained in generic skills like scientific writing, job applications, writing of research proposals or scientific presentation. The PhDs choose a course which covers their interests/needs. The RUB Research School organizes many interesting generic skills courses. External training can also be organized, if requested.

The attendance at a workshop in generic skills of at least two days is required. The workshop has to be in English. A certificate of attendance has to be given to the GSS Science Manager to approve the credit points.

### Oral presentation at Research Area Workshop [A,B,C] or at Autumn Solvation Workshop

RESOLV organizes annual Workshops for each Research Area, which take place at the end of the year (November/December). At these workshops the members of one Research Area present recent results and discuss possibilities to collaborate. Advanced GSS members are invited to present their results at the corresponding Research Area Workshop and/or to give a keynote talk at the GSS Workshop in Autumn.

An oral presentation at a Research Area Workshop or a Keynote at the Autumn Solvation Workshop is required to complete the GSS Training Schedule. The RESOLV Office approves the credit points for the oral presentation.

GSS members in their last year that did not yet get the opportunity to give an oral presentation within RESOLV have to contact the GSS Science Manager and/or the coordinator of their Research Area.

## Public Outreach

GSS members communicate their work to the public. This is done by different tools. A “short story” about the scientific project can be written and published e.g. in a blog. Managing the blog itself and contributing with e.g. conference reports is welcome as well. Film or Podcast contributions about the GSS and RESOLV can be created by the GSS members. Organizing or taking part in a Science Slam can also be credited. Further suggestions of the GSS members to achieve effective public outreach are welcome. The RESOLV Science Managers assist with the implementation of ideas.

The presentation of the PhD project within the Public Outreach of RESOLV is required to complete the GSS Training Schedule. The Public Outreach is approved by the RESOLV Science Managers.

## Interdisciplinary/International Events

### Active presentation at international conference

GSS members present their work at international conferences and workshops. This is done by poster or oral presentations including the RESOLV logo and acknowledgement.

The presentation of at least one poster or oral presentation at an international conference is required. The GSS member sends the “Database Talks Form” and the pdf of the poster or an abstract of the oral presentation to the RESOLV Office. The GSS Science Manager approves the conference attendance on the GSS Training Schedule.

### International work experience

GSS members complete an internship of 2 up to 3 months at a host institute abroad. The host institute can be chosen from the partners of the international faculty or can be chosen completely individual. The destination of the international work experience should be discussed in the regular TAC meetings.

The International work experience is required to complete the GSS Training Schedule. The supervisor at the host institute signs the “GSS internship form” which has to be returned to the GSS Science Manager for the approval of the credit points.