



APPLICATION FORM FOR INTERNATIONAL STUDENTS
Doctoral Programme in Chemistry & Biochemistry

Registration Number		<i>Please attach photo</i>
Surname, First name		
Nationality		
Date of Birth		
Highest Academic Degree		
Major Scientific Subject		
Application for: <input type="checkbox"/> 3-year research course of studies <input type="checkbox"/> 1-year preparatory training		

PRIMARY SCIENTIFIC INTERESTS

Choose one, at most two fields only.

- | | | |
|---|--|--|
| <input type="checkbox"/> Inorganic Chemistry | <input type="checkbox"/> Organic Chemistry | <input type="checkbox"/> Analytical Chemistry |
| <input type="checkbox"/> Physical Chemistry | <input type="checkbox"/> Technical Chemistry | <input type="checkbox"/> Theoretical Chemistry |
| <input type="checkbox"/> Biomolecular Chemistry | <input type="checkbox"/> Neurobiochemistry | <input type="checkbox"/> Protein Biochemistry |
| <input type="checkbox"/> Molecular Medicine | <input type="checkbox"/> Plant Biochemistry | <input type="checkbox"/> "INTCHEM" |

If you have specific research group preferences, indicate the name(s) of the potential supervisor(s)

- 1.
- 2.

PLEASE INDICATE HOW YOU LEARNED ABOUT THE GSCB

- | | | |
|---------------------------------------|---|--|
| <input type="checkbox"/> Poster/Flyer | <input type="checkbox"/> Conference/Education Fair | <input type="checkbox"/> Advertisement |
| <input type="checkbox"/> DAAD Website | <input type="checkbox"/> Colleagues/Faculty Members | <input type="checkbox"/> Other |

Specify details

<i>For office use only</i>	AF	A
	DI	
	TR	B
	EC	
	R1	C
	R2	

Before completing this application form please read the notes on page 12 for guidance!

Surname, First Name

Registration Number, please leave blank

PERSONAL INFORMATION

Surname

(please use exactly the same name as in your passport; please underline main name)

Forename(s)

(please use exactly the same name as in your passport; please underline main name)

Previous Name(s)

(if changed)

Date of Birth

(dd/mm/yyyy)

Gender

Marital Status

Place of Birth

Male

Single

Nationality

Female

Married

Country of Domicile or
Permanent Residence

Number of
Children _____

Disability

(please give details)

Correspondence Address

Permanent Home Address

Address to which all correspondence will be sent

(if different from correspondence address)

Address

Telephone

Fax *(if applicable)*

Email

From - To

EDUCATION

Primary and Secondary School

Name of School	Place <i>(Place/Country)</i>	Dates of Attendance <i>(month/year)</i>	Qualification obtained <i>(if applicable)</i>	Final Grade

Surname, First Name

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ACADEMIC HISTORY

Higher education institutions attended (university, polytechnic college or other).

Dates (mm/yy – mm/yy)	Name of Institution / Place / Country	Principal Subject(s)

Degrees awarded or expected before joining the GSCB

Date of Award (Day/month/year)	Exact Degree Title (BSc, MSc, Diploma, etc)	Subject	Score (Marks, Points)		
			obtained	Max.*	Min.**

*Maximum score (marks, points) that can be obtained, **Minimum score (marks, points) required to pass

ADDITIONAL QUALIFYING EXAMS

GATE, GRE, NET etc

Date taken (day/month/year)	Exam taken (give exact title)	Score

HONOURS, SCHOLARSHIPS, PRIZES

List any honours, prizes and awards you have received relevant to this application, with dates and a short description.

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THESIS (IF APPLICABLE)

Title of your Master or Diploma thesis, indicate also the name of your supervisor

Abstract: Briefly summarise the experimental approach and key results obtained

LIST OF PUBLICATIONS, PATENTS ETC (IF APPLICABLE)

Surname, First Name

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SELF-EVALUATION

Indicate the level of your **general knowledge** in each of the following subjects in chemistry and biochemistry. If you are unfamiliar with a subject, choose N/A for not applicable. In the spaces left blank you may add additional subjects which describe your scientific background.

Chemistry	Very good	Good	Fair	N/A
Analytical chemistry	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Inorganic chemistry	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Organic chemistry	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Physical chemistry	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Chemical engineering	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Theoretical chemistry	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<i>Other (please specify)</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<i>Other (please specify)</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Biochemistry	Very good	Good	Fair	N/A
Neurobiochemistry	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Protein biochemistry	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Plant biochemistry	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Molecular medicine	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Biomolecular chemistry	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<i>Other (please specify)</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<i>Other (please specify)</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

If applicable, indicate the level of your knowledge in the following specific topics. In the spaces left blank you may add additional topics which describe your scientific background in chemistry.

Specific topics in chemistry	Very good	Good	Fair	N/A
Analytical methods for materials	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Chromatography	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
NMR spectroscopy	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Spectroscopic methods	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Mass spectrometry	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Biosensors	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Microelectrochemistry	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Inorganic synthesis	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Biomaterials and biomineralisation	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Molecular clusters	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Solid state chemistry	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Chemistry of nano-materials	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Coordination chemistry	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Bioorganic chemistry	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Supramolecular and peptide chemistry	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Physical organic chemistry	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

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Continued

Organometallic chemistry	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Theoretical organic chemistry	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Synthesis of natural products	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Characterisation of natural products	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
High pressure chemistry	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Surface chemistry	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Molecular interactions	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Chemical kinetics	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Laser spectroscopy	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Heterogeneous catalysis	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Reaction engineering	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Ab-initio calculations	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Computational chemistry	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Quantum chemistry	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other (please specify)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other (please specify)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other (please specify)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other (please specify)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

NOTE: The following section is compulsory only for applicants wishing to pursue advanced studies in biochemistry. All other applicants may proceed directly to page 7. If applicable, indicate the level of your knowledge in each of the specific topics. In the spaces left blank you may add additional topics which describe your scientific background in biochemistry.

Specific topics in biochemistry	Very good	Good	Fair	N/A
Protein – protein interaction	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Cultures of neurons or glial cells, organ cultures	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Intracellular signal transduction mechanisms	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Molecular mechanisms for neural regeneration	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Protein tyrosine kinase/phosphatases in the nervous system	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Biochemistry of neural stem cell differentiation	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Gene expression	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
RNA structure, function and modification	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Regulatory RNA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Structure and function of neurotransmitter receptors	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Receptor assembly and intracellular targeting	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Invertebrate and plant ligand-gated ion channels	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Molecular taxonomy	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Scanning ion conductance microscopy	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Regulation of voltage-activated ion currents	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Patch-clamp techniques	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Theoretical biochemistry	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Biomolecular simulation	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
DNA cloning techniques	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other (please specify)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other (please specify)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other (please specify)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

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EXPERIMENTAL SKILLS

Chemistry is a "hands on" subject. Describe your practical expertise in some detail. If invited for an interview to Bochum, you may have to prove these skills in the laboratory.

ADDITIONAL RESEARCH, TEACHING OR WORK EXPERIENCE

Surname, First Name

Registration Number, please leave blank

RESEARCH PROPOSAL

The international postgraduate programme is strongly research oriented. Write a short research proposal on the scientific work you would like to do, if you had the funds and equipment available. You are welcome to develop your own ideas. Alternatively, you may look up recent publications of relevant members of faculty as a starting point. Do not exceed the space provided.

Surname, First Name

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MOTIVATION FOR PROGRAMME ENTRY

Please explain your motivation to pursue advanced studies in Chemistry or Biochemistry at the GSCB.

WHAT PROFESSIONAL CAREER DO YOU ENVISAGE?

WHAT ARE YOUR EXTRACURRICULAR INTERESTS?

OTHER RELEVANT INFORMATION OR REMARKS

Surname, First Name

Registration Number, please leave blank

LANGUAGES SKILLS

Language	native	very good	good	fair	poor
English	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
German	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Applicants whose native language is not English should enclose a copy of their English language qualification(s). Please specify your formal English language qualification(s) (by ticking the relevant box) with results obtained and the date(s) you took the test or will be taking the test. Alternatively equivalent information to prove your English proficiency must be submitted (see notes).

English	Score(s)	Date
IELTS <input type="checkbox"/>		
TOEFL <input type="checkbox"/>		
Other (please specify) <input type="checkbox"/>		
Other information proving English proficiency:		

Although not compulsory, a basic knowledge of German is advantageous. We expect all our foreign students to get to TestDaF level TDN3 in the course their three year study period. Special language courses will be offered for beginners.

German	Level/Score(s)	Date
TestDaF <input type="checkbox"/>		
DSH <input type="checkbox"/>		
Other (please specify) <input type="checkbox"/>		
Other information indicating a certain level of German:		

REFERENCES

	First Referee	Second Referee
Name:		
Occupation:		
Address:		
Phone:		
Fax:		
Email:		

Surname, First Name

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FUNDING

Successful applicants for the 3-year research course may be offered research assistantships by their supervisor to finance their doctoral studies. However, if funding cannot be provided by the supervisor, e.g. during the preparatory training, would you be able to meet the living expenses of minimum 500 Euro per month for the first year of your doctoral studies? Or would you prefer to enter the course at a later stage, once an external source of funding, e.g. DAAD scholarship, has been secured?

STATEMENT

I certify that the information provided in this application is accurate to the best of my knowledge. I am aware that false answers, whether intentional or the result of negligence, are illegal and that their discovery will lead to the revocation of my admission. Furthermore, I agree to inform the GSCB immediately of any changes or amendments.

I have read the notes for guidance including the notice about storage of personal data. I accept responsibility for the completeness of my application and agree that this application and accompanying documents shall remain with the GSCB.

Place

Date

Signature

SUBMISSION (TWO COPIES)

To submit your application send the **two copies** of the **signed and fully completed** application form including attached documents to:

**Graduate School of Chemistry and Biochemistry
Building NC 02/169
Ruhr-Universität Bochum
D-44780 Bochum
Germany**

The receipt of your application form you will be acknowledged by email. Incomplete applications and applications handed in after the deadline cannot be taken into consideration.

The application and accompanying documents will remain with the GSCB. Personal data will be stored in the computer files only to the extent necessary for the administration of applications in compliance with the "Federal Data Protection Law". Applications of unsuccessful candidates will be destroyed after one year.

Surname, First Name

Registration Number, please leave blank

NOTES FOR GUIDANCE

Before completing this application form and attaching the necessary documents, please read the following information carefully. It is meant to help you to submit a complete application and to assist us in evaluating it speedily.

Two copies of the application form and all relevant documents must be submitted: One of the two copies must be unbound and on A4 paper as it will be scanned in electronically using a document scanner to ensure rapid distribution among members of faculty.

Documents required before the application deadline (TWO COPIES):

- Hardcopy of the completed and signed application form with photograph**
Please either type or complete this form by using block capitals throughout. Complete all sections of the application as fully as possible. If a section does not apply to you please indicate this with N/A for not applicable.

Academic certificates

Officially authenticated copies of the following:

- School-leaving certificate giving the right of entry to higher education in the applicant's home country (with individual grades)
- All university end-of year exam certificates (with individual grades)
- University diploma or degree certificate indicating the final grade(s)

All certificates must be accompanied by an explanation of the grading system. Copies of certificates must be officially authenticated and submitted preferably on A4 sized paper. Document copies may be authenticated as true copies of the originals with a stamp and signature by one of the following authorities: The German Embassy or Consulate, a German school, or the university, which conferred the degree. Documents in languages other than English or German should be submitted with a certified English translation. **Please do not send any original certificates.**

- Officially authenticated copies of **certificates relating to additional qualifying exams taken**, if appropriate.
- Documents relating to periods of practical training or professional work experience**, if appropriate
- Two letters of recommendation**
Letters of two referees (named in the application form) who are able to evaluate your personality, academic experience, and intellectual merit. The use of the reference report form is required. Reference letters can be mailed directly from the referees to the GSCB or sent in a sealed envelope together with the application. Letters of recommendation submitted after the deadline of application will not be acknowledged in the evaluation of your application.

Additional documents:

- Provide proof of language proficiency in English**
Applicants whose native language is not English are asked to submit a proof of proficiency in English (see below); preferably before but acceptable after the application deadline.
- TOEFL: paper-based test (overall score above 550), computer-based test (above 213) and a score of at least 4.0 in the Test of Written English (TWE, essay)
- IELTS: a minimum of Band 6 in all four sections
Official copies of test scores or transcripts should be sent to the GSCB
- If you cannot manage to provide us with a certificate, equivalent information to prove your English proficiency must be submitted (e.g. proven higher education in English or certificates demonstrating sufficient language ability and training).