

Application for a PhD position in the Research Training Group (RTG 3120)

Thank you for your interest in our Research Training Group [Biomolecular Condensates: From Physics to Biological Functions \(RTG 3120\)](#).

Please submit your detailed application with the required documents via this application form.

The applicant is responsible for requesting the **reference or recommendation letter** from the referee. Letters should be sent by a referee directly via the TUD SecureMail Portal <https://securemail.tu-dresden.de> by sending it as a single pdf file to rtg3120@tu-dresden.de before the deadline.

Required Documents:

We recommend that you prepare the following documents and combine them to one PDF before starting the application as you will be asked to upload them towards the end of the application:

1. A **cover letter** describing both your research experience and research interests
2. A **curriculum vitae** (including explanation for gaps, if any)
3. **University transcripts and degree certificates** (or an official letter from the university confirming that you will complete your studies before starting the PhD studies)
4. A list of relevant **academic achievements** or **publications** (if applicable), with full citations, indicating and your role in the study (data collection, writing, etc), publication review status (Peer-reviewed or not), and type (original, review, abstract, preprint, dataset, etc). Include also a list of conferences attended with date, location and type of your own contribution (poster, talk)

Applications can't be considered if they are incomplete, or if documents or references are missing beyond the due date. Applicants will be contacted shortly after the deadline and informed whether they were shortlisted for online interviews with the supervisors of choice. After submitting the application, we encourage you to keep a copy for your own reference (Click on **Print your answers** and then **PDF export**). Please note that after submission you will not be able to change any of the given data anymore.

For questions or in case of technical difficulties, contact us at

rtg3120@tu-dresden.de

There are 24 questions in this survey.

Personal Information

Last Name: *

Please write your answer here:

First Name: *

Please write your answer here:

Middle Name:

Please write your answer here:

Nationality:

Choose one of the following answers

Please choose **only one** of the following:

- Afghanistan
- Albania
- Algeria
- American Samoa
- Andorra
- Angola
- Anguilla
- Antarctica
- Antigua And Barbuda
- Argentina
- Armenia
- Aruba
- Australia
- Austria

- Azerbaijan
- Bahamas
- Bahrain
- Bangladesh
- Barbados
- Belarus
- Belgium
- Belize
- Benin
- Bermuda
- Bhutan
- Bolivia
- Bosnia And Herzegovina
- Botswana
- Bouvet Island
- Brazil
- British Indian Ocean Territory
- Brunei Darussalam
- Bulgaria
- Burkina Faso
- Burundi
- Cambodia
- Cameroon
- Canada
- Cape Verde
- Cayman Islands
- Central African Republic
- Chad
- Chile
- China
- Christmas Island
- Cocos (keeling) Islands
- Colombia
- Comoros
- Congo
- Congo, The Democratic Republic Of The
- Cook Islands

- Costa Rica
- Cote D'ivoire
- Croatia
- Cuba
- Cyprus
- Czech Republic
- Denmark
- Djibouti
- Dominica
- Dominican Republic
- East Timor
- Ecuador
- Egypt
- El Salvador
- Equatorial Guinea
- Eritrea
- Estonia
- Ethiopia
- Falkland Islands (malvinas)
- Faroe Islands
- Fiji
- Finland
- France
- French Guiana
- French Polynesia
- French Southern Territories
- Gabon
- Gambia
- Georgia
- Germany
- Ghana
- Gibraltar
- Greece
- Greenland
- Grenada
- Guadeloupe
- Guam

- Guatemala
- Guinea
- Guinea-bissau
- Guyana
- Haiti
- Heard Island And Mcdonald Islands
- Holy See (vatican City State)
- Honduras
- Hong Kong
- Hungary
- Iceland
- India
- Indonesia
- Iran, Islamic Republic Of
- Iraq
- Ireland
- Israel
- Italy
- Jamaica
- Japan
- Jordan
- Kazakstan
- Kenya
- Kiribati
- Korea, Democratic People's Republic Of
- Korea, Republic Of
- Kosovo
- Kuwait
- Kyrgyzstan
- Lao People's Democratic Republic
- Latvia
- Lebanon
- Lesotho
- Liberia
- Libyan Arab Jamahiriya
- Liechtenstein
- Lithuania

- Luxembourg
- Macau
- Macedonia, The Former Yugoslav Republic Of
- Madagascar
- Malawi
- Malaysia
- Maldives
- Mali
- Malta
- Marshall Islands
- Martinique
- Mauritania
- Mauritius
- Mayotte
- Mexico
- Micronesia, Federated States Of
- Moldova, Republic Of
- Monaco
- Mongolia
- Montserrat
- Montenegro
- Morocco
- Mozambique
- Myanmar
- Namibia
- Nauru
- Nepal
- Netherlands
- Netherlands Antilles
- New Caledonia
- New Zealand
- Nicaragua
- Niger
- Nigeria
- Niue
- Norfolk Island
- Northern Mariana Islands

- Norway
- Oman
- Pakistan
- Palau
- Palestine
- Panama
- Papua New Guinea
- Paraguay
- Peru
- Philippines
- Pitcairn
- Poland
- Portugal
- Puerto Rico
- Qatar
- Reunion
- Romania
- Russian Federation
- Rwanda
- Saint Helena
- Saint Kitts And Nevis
- Saint Lucia
- Saint Pierre And Miquelon
- Saint Vincent And The Grenadines
- Samoa
- San Marino
- Sao Tome And Principe
- Saudi Arabia
- Senegal
- Serbia
- Seychelles
- Sierra Leone
- Singapore
- Slovakia
- Slovenia
- Solomon Islands
- Somalia

- South Africa
- South Georgia And The South Sandwich Islands
- Spain
- Sri Lanka
- Sudan
- Suriname
- Svalbard And Jan Mayen
- Swaziland
- Sweden
- Switzerland
- Syrian Arab Republic
- Taiwan, Province Of China
- Tajikistan
- Tanzania, United Republic Of
- Thailand
- Togo
- Tokelau
- Tonga
- Trinidad And Tobago
- Tunisia
- Turkey
- Turkmenistan
- Turks And Caicos Islands
- Tuvalu
- Uganda
- Ukraine
- United Arab Emirates
- United Kingdom
- United States
- United States Minor Outlying Islands
- Uruguay
- Uzbekistan
- Vanuatu
- Venezuela
- Viet Nam
- Virgin Islands, British
- Virgin Islands, U.s.

- Wallis And Futuna
- Western Sahara
- Yemen
- Zambia
- Zimbabwe

Date of Birth:

Please enter a date:

Officially recognized severe disability or equivalent status?

Choose one of the following answers

Please choose **only one** of the following:

- Yes
- No

Contact Information

Country of Residence: *

Choose one of the following answers

Please choose **only one** of the following:

- Afghanistan
- Albania
- Algeria
- American Samoa
- Andorra
- Angola
- Anguilla
- Antarctica
- Antigua And Barbuda

- Argentina
- Armenia
- Aruba
- Australia
- Austria
- Azerbaijan
- Bahamas
- Bahrain
- Bangladesh
- Barbados
- Belarus
- Belgium
- Belize
- Benin
- Bermuda
- Bhutan
- Bolivia
- Bosnia And Herzegovina
- Botswana
- Bouvet Island
- Brazil
- British Indian Ocean Territory
- Brunei Darussalam
- Bulgaria
- Burkina Faso
- Burundi
- Cambodia
- Cameroon
- Canada
- Cape Verde
- Cayman Islands
- Central African Republic
- Chad
- Chile
- China
- Christmas Island
- Cocos (keeling) Islands

- Colombia
- Comoros
- Congo
- Congo, The Democratic Republic Of The
- Cook Islands
- Costa Rica
- Cote D'ivoire
- Croatia
- Cuba
- Cyprus
- Czech Republic
- Denmark
- Djibouti
- Dominica
- Dominican Republic
- East Timor
- Ecuador
- Egypt
- El Salvador
- Equatorial Guinea
- Eritrea
- Estonia
- Ethiopia
- Falkland Islands (malvinas)
- Faroe Islands
- Fiji
- Finland
- France
- French Guiana
- French Polynesia
- French Southern Territories
- Gabon
- Gambia
- Georgia
- Germany
- Ghana
- Gibraltar

- Greece
- Greenland
- Grenada
- Guadeloupe
- Guam
- Guatemala
- Guinea
- Guinea-bissau
- Guyana
- Haiti
- Heard Island And Mcdonald Islands
- Holy See (vatican City State)
- Honduras
- Hong Kong
- Hungary
- Iceland
- India
- Indonesia
- Iran, Islamic Republic Of
- Iraq
- Ireland
- Israel
- Italy
- Jamaica
- Japan
- Jordan
- Kazakstan
- Kenya
- Kiribati
- Korea, Democratic People's Republic Of
- Korea, Republic Of
- Kosovo
- Kuwait
- Kyrgyzstan
- Lao People's Democratic Republic
- Latvia
- Lebanon

- Lesotho
- Liberia
- Libyan Arab Jamahiriya
- Liechtenstein
- Lithuania
- Luxembourg
- Macau
- Macedonia, The Former Yugoslav Republic Of
- Madagascar
- Malawi
- Malaysia
- Maldives
- Mali
- Malta
- Marshall Islands
- Martinique
- Mauritania
- Mauritius
- Mayotte
- Mexico
- Micronesia, Federated States Of
- Moldova, Republic Of
- Monaco
- Mongolia
- Montserrat
- Montenegro
- Morocco
- Mozambique
- Myanmar
- Namibia
- Nauru
- Nepal
- Netherlands
- Netherlands Antilles
- New Caledonia
- New Zealand
- Nicaragua

- Niger
- Nigeria
- Niue
- Norfolk Island
- Northern Mariana Islands
- Norway
- Oman
- Pakistan
- Palau
- Palestine
- Panama
- Papua New Guinea
- Paraguay
- Peru
- Philippines
- Pitcairn
- Poland
- Portugal
- Puerto Rico
- Qatar
- Reunion
- Romania
- Russian Federation
- Rwanda
- Saint Helena
- Saint Kitts And Nevis
- Saint Lucia
- Saint Pierre And Miquelon
- Saint Vincent And The Grenadines
- Samoa
- San Marino
- Sao Tome And Principe
- Saudi Arabia
- Senegal
- Serbia
- Seychelles
- Sierra Leone

- Singapore
- Slovakia
- Slovenia
- Solomon Islands
- Somalia
- South Africa
- South Georgia And The South Sandwich Islands
- Spain
- Sri Lanka
- Sudan
- Suriname
- Svalbard And Jan Mayen
- Swaziland
- Sweden
- Switzerland
- Syrian Arab Republic
- Taiwan, Province Of China
- Tajikistan
- Tanzania, United Republic Of
- Thailand
- Togo
- Tokelau
- Tonga
- Trinidad And Tobago
- Tunisia
- Turkey
- Turkmenistan
- Turks And Caicos Islands
- Tuvalu
- Uganda
- Ukraine
- United Arab Emirates
- United Kingdom
- United States
- United States Minor Outlying Islands
- Uruguay
- Uzbekistan

- Vanuatu
- Venezuela
- Viet Nam
- Virgin Islands, British
- Virgin Islands, U.s.
- Wallis And Futuna
- Western Sahara
- Yemen
- Zambia
- Zimbabwe

City *

Please write your answer here:

Postal Code *

Please write your answer here:

Street Address *

Please write your answer here:

Phone Number (with country code)

Please write your answer here:

E-Mail Address, Primary *

Only answer this question if the following conditions are met:

((regexMatch("/^[a-zA-Z0-9._%+-]+@[a-zA-Z0-9.-]+\.[a-zA-Z]{2,}\$")))

Please check the format of your answer.

Please write your answer here:

E-Mail Address, Secondary

Only answer this question if the following conditions are met:

((regexMatch("/^[a-zA-Z0-9._%+-]+@[a-zA-Z0-9.-]+\.[a-zA-Z]{2,}\$")))

Please check the format of your answer.

Please write your answer here:

Education and Research

Degree Information - Provide details for your last university degree (e.g. M.Sc.). See example below:

Degree Received/Expected: M.Sc

Subject Area of Study: Physics

Duration of Study (from MM-YYYY to MM-YYYY): 04.2022 to 03.2024

Name of University/College: TU Dresden

Country Acquired From: Germany

Date Received / Expected (MM-YYYY): 04.2024

Grade (if known): 1.2

Please write your answer(s) here:

Degree Received/Expected

Subject Area of Study

Duration of Study (from MM-YYYY to MM-YYYY)

Name of University/College

Country Acquired From

Date Received / Expected (MM-YYYY)

Grade (if known)

Research Experience - Please describe your research experience in an essay, clearly indicating the significance, the aims and your contributions. In your essay, please include the following information, where possible:

- Title of your research project
- Research field
- Aim of the research
- Main findings and impact on the field
- Elaborate on the methods used and type of research (experimental, theoretical, computational, combination)
- Comment on collaborations and interdisciplinary work.

If you have carried out research in addition to your thesis project, please describe it briefly in a separate paragraph.

Please do not exceed 200 words in length. *

Please write your answer here:

Practical Skills - Provide a list of Computational, Experimental & Technical Expertise. Indicate **Practical Skill, Level of Expertise**, and a brief **Description** or examples that demonstrate the skill. See below for examples:

1. Biochemical Methods - Proteins / Basic / Western Blot - Protein Extraction
2. Computational Methods - Data Analysis and Data Mining / Advanced / IBM SPSS Statistics – EpiData – STATA - SigmaStat
3. Tissue Culture / Advanced / Explanting Aortic Smooth Muscle Cells
4. Microscopy Methods / Advanced / Light microscopy (brightfield, phase contrast, fluorescence)

Please write your answer here:

Coursework - Provide a list of up to 5 courses you completed relevant to the RTG's research field. Include **course title, date of completion**, and a **brief statement about its relevance to the RTG**. See below for an example:

1. Fundamentals of Biophysics / 03.2025 / Topics covered include material properties of liquids

Please write your answer here:

Thesis Projects

List of principal investigators participating in RTG 3120 and their respective thesis projects and institutes:

No.	Project name	Main Supervisor(s)	Institute
A1	Role of surface condensation for the assembly of cortical proteins	O. A. Honigmann	TU Dresden
A2	Regulation of phase separated droplets	T. Harmon	Leibniz IPF Dresden
A3	Spectroscopy and local interactions in condensates and organization of the cytoplasm	E. Adams	TU Dresden
A4	Theory and simulation of polymer-assisted condensates	J.-U. Sommer	Leibniz IPF Dresden and TU Dresden
A5	Capillary forces and the force response of condensates	M. Jahnel and S. Grill	TU Dresden and MPI-CBG
B1	Elucidating the mechanisms underlying mRNA translation regulation by condensation (biophysics and biochemistry)	S. Alberti and M. Schlierf	TU Dresden
B2	Characterizing the role of RNP granules in ALS	J. Sternecker	TU Dresden
B3	Sequence to function mapping of condensate proteomes	A. Toth-Petroczy	MPI-CBG
B4	Role of condensates in biological time across mammals	M. Ebisuya and A. A. Hyman	TU Dresden and MPI-CBG
B5	Role of condensates in epigenetics (experiments and theory)	J. Brugués and H. Schiessel	TU Dresden

Primary Project Preference - Select the primary project you are interested in that reflects your research interests and scientific motivation to join our RTG *

Choose one of the following answers

Please choose **only one** of the following:

- A1 - Role of surface condensation for the assembly of cortical proteins (Supervisor: Alf Honigmann)
- A2 - Regulation of phase separated droplets (Supervisor: Tyler Harmon)
- A3 - Spectroscopy and local interactions in condensates and organization of the cytoplasm (Supervisor: Ellen Adams)
- A4 - Theory and simulation of polymer-assisted condensates (Supervisor: Jens-Uwe Sommer)
- A5 - Capillary forces and the force response of condensates (Supervisors: M. Jahnel and S. Grill)
- B1 - Elucidating the mechanisms underlying mRNA translation regulation by condensation (biophysics and biochemistry) ((Supervisors: Simon Alberti and Michael Schlierf)
- B2 - Characterizing the role of RNP granules in ALS (Supervisor: Jared Sternecker)
- B3 - Sequence to function mapping of condensate proteomes (Supervisor: Agnes Toth-Petroczy)
- B4 - Role of condensates in biological time across mammals (Supervisors: Miki Ebisuya and Anthony Hyman)
- B5 - Role of condensates in epigenetics (experiments and theory) (Supervisors: Jan Brugués and Helmut Schiessel)

Secondary Project Preference - Select the secondary project you are interested in that reflects your research interests and scientific motivation to join our RTG

Choose one of the following answers

Please choose **only one** of the following:

- A1 - Role of surface condensation for the assembly of cortical proteins (Supervisor: Alf Honigmann)
- A2 - Regulation of phase separated droplets (Supervisor: Tyler Harmon)
- A3 - Spectroscopy and local interactions in condensates and organization of the cytoplasm (Supervisor: Ellen Adams)
- A4 - Theory and simulation of polymer-assisted condensates (Supervisor: Jens-Uwe Sommer)
- A5 - Capillary forces and the force response of condensates (Supervisors: M. Jahnel and S. Grill)
- B1 - Elucidating the mechanisms underlying mRNA translation regulation by condensation (biophysics and biochemistry) ((Supervisors: Simon Alberti and Michael Schlierf)
- B2 - Characterizing the role of RNP granules in ALS (Supervisor: Jared Sternecker)
- B3 - Sequence to function mapping of condensate proteomes (Supervisor: Agnes Toth-Petroczy)
- B4 - Role of condensates in biological time across mammals (Supervisors: Miki Ebisuya and Anthony Hyman)
- B5 - Role of condensates in epigenetics (experiments and theory) (Supervisors: Jan Brugués and Helmut Schiessel)

Research Field Preference - Please select one or more research fields you are interested in. Feel free to add a field under other in the comments section. *

Comment only when you choose an answer.

Please choose all that apply and provide a comment:

<input type="checkbox"/> Theoretical Physics	<input type="text"/>
<input type="checkbox"/> Polymer Physics	<input type="text"/>
<input type="checkbox"/> Soft Matter Physics	<input type="text"/>
<input type="checkbox"/> Biophysics	<input type="text"/>
<input type="checkbox"/> Physical Chemistry	<input type="text"/>
<input type="checkbox"/> Physiological Chemistry	<input type="text"/>
<input type="checkbox"/> Biochemistry	<input type="text"/>
<input type="checkbox"/> Cell Biology	<input type="text"/>
<input type="checkbox"/> Molecular Biology	<input type="text"/>
<input type="checkbox"/> Bioinformatics	<input type="text"/>
<input type="checkbox"/> Computational Biology	<input type="text"/>
<input type="checkbox"/> Other:	<input type="text"/>

Uploads and References

Kindly combine the following documents to one PDF and upload here:

1. A **cover letter** elaborating on your motivation to join the RTG and primary project interest (you may indicate interest in up to two alternative projects)
2. A **curriculum vitae** (including explanation for gaps, if any)
3. **University transcripts and degree certificates** (or a letter confirming that you will complete your studies before starting the PhD)
4. A list of relevant **academic achievements** or **publications** (if applicable), with full citations, indicating and your role in the study (data collection, writing, etc), publication review status (Peer-reviewed or not), and type (original, review, abstract, preprint, dataset, etc). Include also a list of conferences attended with date, location and type of your own contribution (poster, talk)

In case you face any technical difficulties in uploading the file, feel free to email rtg3120@tu-dresden.de for support.

*

Please upload at most one file

Kindly attach the aforementioned documents along with the survey

References - provide the **full name** and **institutional E-mail** address of a referee who **has already agreed** to provide you with a reference / recommendation letter to support your application to our program. Additional references are also welcome. The referees should send their letters of recommendation latest by the application deadline (October 24th, 2025) to the following email: rtg3120@tu-dresden.de *

Please write your answer here:

Other Information

How did you learn about the RTG?

Please write your answer here:

**Comments - Anything else you would like to let us know?
please use the text box below:**

Please write your answer here:

Thank you for completing the application form. We encourage you to keep a copy of the application for your own refererence (**Click on Print your answers and export as a PDF**). The completed form will not be sent per email.

We will review your application and get back to you shortly afterwards. If shortlisted, you will be invited to join an online interview between with your potential mentors. More details to follow.

Submit your survey.

Thank you for completing this survey.