The Collaborative Research Centre Transregio 212 “A Novel Synthesis of Individualisation across Behaviour, Ecology and Evolution: Niche Construction, Niche Construction (NC3),” subproject D03 (Jun. Prof. Dr. Meike Wittmann) and D04 (Prof. Dr. Klaus Reinhold), offers two full-time research positions (postdoc positions in Theoretical Evolutionary Ecology) starting soon as possible (E13 TV-L, nonpermanent positions).

### Your Tasks

The aim of both projects is to develop ecological and evolutionary theory to contribute towards a better understanding of intra-specific niche variation. One project is entitled “Local population density as a key dimension of the individualised niche. An eco-evolutionary modelling approach” (sub-project D03 of the collaborative research centre, with Meike Wittmann). This project will explore how individual and populations respond to spatial population density, and how the various population dynamics (genetic variation, phenotypic plasticity) feed back on patterns of population density and also influence the population’s ability to persist in the face of habitat loss or habitat fragmentation. This project involves collaborating with empirical groups in the collaborative research centre. The other project is entitled “Modelling adaptive individualised niches in behavioural” (sub-project D04 of the collaborative research centre, with Klaus Reinhold). This theoretical project will explore the conditions that favour the evolution of between-individual variation in behavioural niches. The aim is to focus on mate choice and exploration and examine to what extent phenotypic variation can be maintained based on genetic differences and variation in adaptive phenotypic plasticity.

Full details of the CRC can be found at [http://www.uni-bielefeld.de/biologie/crc212/D03.html](http://www.uni-bielefeld.de/biologie/crc212/D03.html) and [http://www.uni-bielefeld.de/biologie/crc212/D04.html](http://www.uni-bielefeld.de/biologie/crc212/D04.html).

Full-time positions may be changed into part-time positions, as long as this does not conflict with official needs. The employment is designed to encourage further academic qualification. In principle, these stipulated in § 2 (1) sentences 2 of the WissZeitVG (fixed-term employment), the contract will end on December 31, 2021. In accordance with the provisions of the WissZeitVG and the Agreement on Satisfactory Conditions of Employment, the length of contract may differ in individual cases. The employment is designed to encourage further academic qualification. In principle, these full-time positions may be changed into part-time positions, as long as this does not conflict with official needs.

Salary will be paid according to Remuneration level 13 of the Wage Agreement for Public Service in the Federal States (TV-L). As experience with high-performance computing

### Your Profile

**We expect**

- university degree in a relevant discipline, e.g. biology, mathematics, physics or bioinformatics
- completed PhD in a relevant field, ideally related to theoretical ecology, population genetics or evolutionary ecology
- experience with mathematical modeling
- programming skills in at least one programming language, e.g. R, C++, Python
- simulation studies
- interaction with other research groups in the collaborative research centre
- writing scientific publications for international journals
- organizational tasks in the research group and collaborative research centre

### Preferable qualifications

- papers in peer-reviewed international journals
- experience in collaborations between empiricists and theoreticians
- experience with high-performance computing

### Remuneration

Salary will be paid according to Remuneration level 13 of the Wage Agreement for Public Service in the Federal States (TV-L). As

- completed PhD in a relevant field, ideally related to theoretical ecology, population genetics or evolutionary ecology
- experience with mathematical modeling
- programming skills in at least one programming language, e.g. R, C++, Python
- interest in both biological and mathematical questions
- ability to work both independently and as part of a team
- very good oral and written communication skills in English

- papers in peer-reviewed international journals
- experience in collaborations between empiricists and theoreticians
- experience with high-performance computing

### Application Procedure

To apply, please provide (i) a letter of motivation including a statement of your research interests and skills and experience relevant to the positions, (ii) a CV including publication list, (iii) names and contact details of two referees writing confidential letters of recommendation. All materials should be sent as a single PDF file to the position, (ii) a CV including publication list, (iii) names and contact details of two referees willing to write confidential letters of recommendation. All materials should be sent as a single PDF file to meike.wittmann@uni-bielefeld.de by the 1st of February 2018. Please mark your application with the identification code wiss17380. Please specify in your application whether you wish to apply for project D03 or D04 or both. The application process will be managed jointly for the two positions. Preferences for one of the topics can be indicated or discussed at a later stage. Please do not use application portfolios and send only photocopies of original documents because all application materials will be destroyed at the end of the selection procedure. Further information on Bielefeld University can be found on our homepage at [www.uni-bielefeld.de](http://www.uni-bielefeld.de).

**Postal Address**

Universität Bielefeld
Fakultät für Biologie, Theoretische Biologie, SFB/TRR 212
Frau Jun. Prof. Dr. Meike Wittmann
P. O. Box: 10 01 31
33501 Bielefeld
Germany

**Contact**

Name: Jun. Prof. Dr. Meike Wittmann
Phone: (+49) 521 106-6870
Email: meike.wittmann@uni-bielefeld.de

Name: Prof. Dr. Klaus Reinhold
Phone: (+49) 521 106-2721
Email: klaus.reinhold@uni-bielefeld.de

Bielefeld University has received a number of awards for its achievements in the provision of equal opportunity and has been recognized as a family-friendly university. This is particularly the case for women as well as for disabled and handicapped persons. Applications from suitably qualified handicapped and severely handicapped persons are explicitly encouraged.

The Collaborative Research Centre Transregio 212 “A Novel Synthesis of Individualisation across Behaviour, Ecology and Evolution: Niche Construction, Niche Construction (NC3),” subproject D03 (Jun. Prof. Dr. Meike Wittmann) and D04 (Prof. Dr. Klaus Reinhold), offers two full-time research positions (postdoc positions in Theoretical Evolutionary Ecology)

starting soon as possible

(E13 TV-L, non-permanent positions)

### Your Tasks

The aim of both projects is to develop ecological and evolutionary theory to contribute towards a better understanding of intra-specific niche variation. One project is entitled “Local population density as a key dimension of the individualised niche. An eco-evolutionary modelling approach” (sub-project D03 of the collaborative research centre, with Meike Wittmann). This project will explore how individual and populations respond to spatial population density, and how the various population dynamics (genetic variation, phenotypic plasticity) feed back on patterns of population density and also influence the population’s ability to persist in the face of habitat loss or habitat fragmentation. This project involves collaborating with empirical groups in the collaborative research centre. The other project is entitled “Modelling adaptive individualised niches in behavioural” (sub-project D04 of the collaborative research centre, with Klaus Reinhold). This theoretical project will explore the conditions that favour the evolution of between-individual variation in behavioural niches. The aim is to focus on mate choice and exploration and examine to what extent phenotypic variation can be maintained based on genetic differences and variation in adaptive phenotypic plasticity.

Full details of the CRC can be found at [http://www.uni-bielefeld.de/biologie/crc212/D03.html](http://www.uni-bielefeld.de/biologie/crc212/D03.html) and [http://www.uni-bielefeld.de/biologie/crc212/D04.html](http://www.uni-bielefeld.de/biologie/crc212/D04.html).

Full-time positions may be changed into part-time positions, as long as this does not conflict with official needs. The employment is designed to encourage further academic qualification. In principle, these stipulated in § 2 (1) sentences 2 of the WissZeitVG (fixed-term employment), the contract will end on December 31, 2021. In accordance with the provisions of the WissZeitVG and the Agreement on Satisfactory Conditions of Employment, the length of contract may differ in individual cases. The employment is designed to encourage further academic qualification. In principle, these full-time positions may be changed into part-time positions, as long as this does not conflict with official needs.

Salary will be paid according to Remuneration level 13 of the Wage Agreement for Public Service in the Federal States (TV-L). As

- completed PhD in a relevant field, ideally related to theoretical ecology, population genetics or evolutionary ecology
- experience with mathematical modeling
- programming skills in at least one programming language, e.g. R, C++, Python
- interest in both biological and mathematical questions
- ability to work both independently and as part of a team
- very good oral and written communication skills in English

### Preferable qualifications

- papers in peer-reviewed international journals
- experience in collaborations between empiricists and theoreticians
- experience with high-performance computing

### Remuneration

Salary will be paid according to Remuneration level 13 of the Wage Agreement for Public Service in the Federal States (TV-L). As

- completed PhD in a relevant field, ideally related to theoretical ecology, population genetics or evolutionary ecology
- experience with mathematical modeling
- programming skills in at least one programming language, e.g. R, C++, Python
- interest in both biological and mathematical questions
- ability to work both independently and as part of a team
- very good oral and written communication skills in English

### Application Procedure

To apply, please provide (i) a letter of motivation including a statement of your research interests and skills and experience relevant to the positions, (ii) a CV including publication list, (iii) names and contact details of two referees writing confidential letters of recommendation. All materials should be sent as a single PDF file to the position, (ii) a CV including publication list, (iii) names and contact details of two referees willing to write confidential letters of recommendation. All materials should be sent as a single PDF file to meike.wittmann@uni-bielefeld.de by the 1st of February 2018. Please mark your application with the identification code wiss17380. Please specify in your application whether you wish to apply for project D03 or D04 or both. The application process will be managed jointly for the two positions. Preferences for one of the topics can be indicated or discussed at a later stage. Please do not use application portfolios and send only photocopies of original documents because all application materials will be destroyed at the end of the selection procedure. Further information on Bielefeld University can be found on our homepage at [www.uni-bielefeld.de](http://www.uni-bielefeld.de).

**Postal Address**

Universität Bielefeld
Fakultät für Biologie, Theoretische Biologie, SFB/TRR 212
Frau Jun. Prof. Dr. Meike Wittmann
P. O. Box: 10 01 31
33501 Bielefeld
Germany

**Contact**

Name: Jun. Prof. Dr. Meike Wittmann
Phone: (+49) 521 106-6870
Email: meike.wittmann@uni-bielefeld.de

Name: Prof. Dr. Klaus Reinhold
Phone: (+49) 521 106-2721
Email: klaus.reinhold@uni-bielefeld.de

Bielefeld University has received a number of awards for its achievements in the provision of equal opportunity and has been recognized as a family-friendly university. This is particularly the case for women as well as for disabled and handicapped persons. Applications from suitably qualified handicapped and severely handicapped persons are explicitly encouraged.

[www.uni-bielefeld.de](http://www.uni-bielefeld.de)