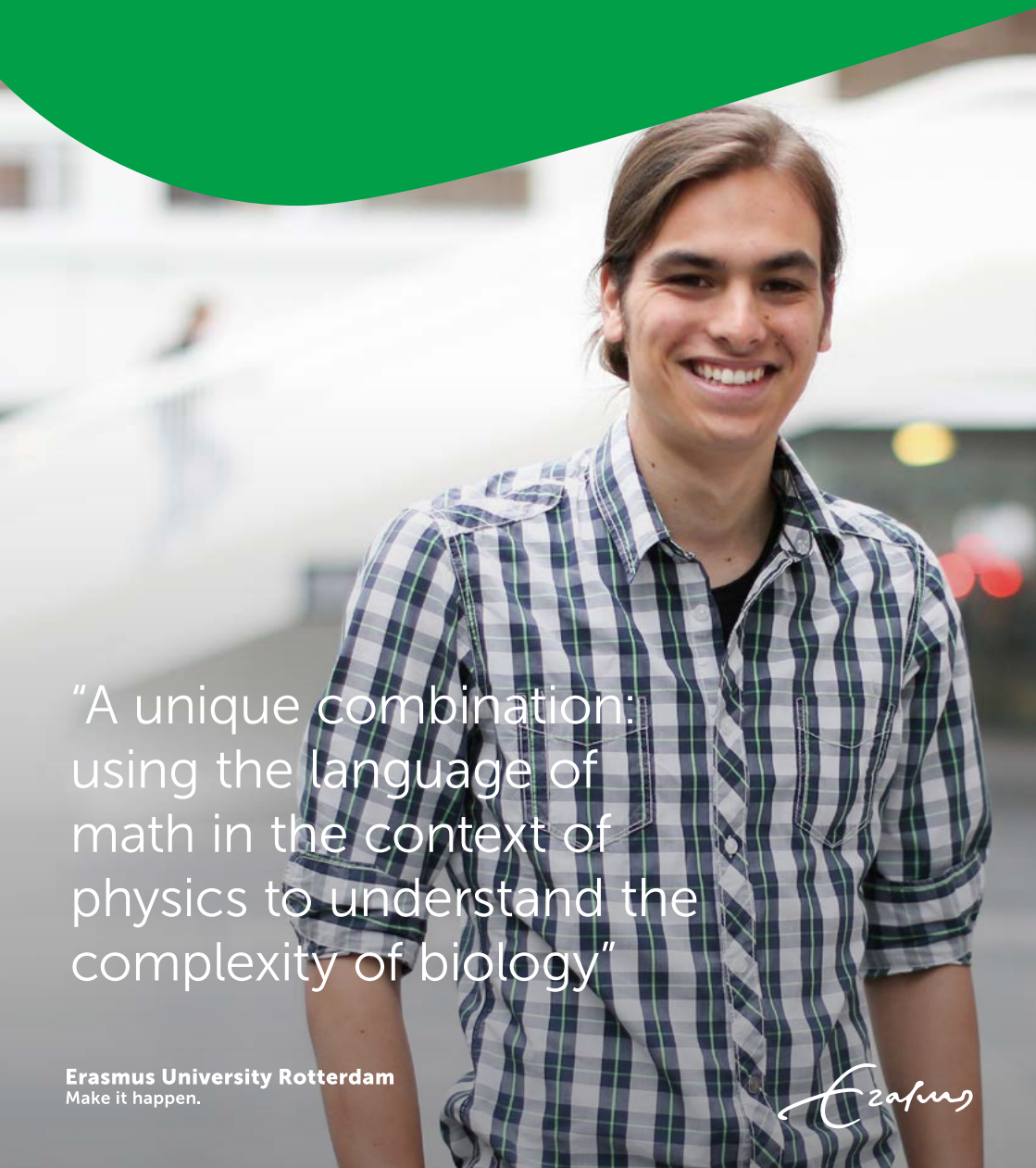
Erasmus MC

TU Delft

Nanobiology

2020-2021



"A unique combination: using the language of math in the context of physics to understand the complexity of biology"

Erasmus University Rotterdam
Make it happen.

Erasmus

Would Nanobiology
be something for you?

www.eur.nl/erasmusmc

Nanobiology is an educational programme in a new field of science. It is challenging and interesting, and will lead us into new directions. University education is more than learning different things; it prepares you to create new knowledge and that requires a strong foundation. In Nanobiology this foundation is a unique combination: using the language of math in the context of physics to understand the complexity of biology. Your teachers come from different fields of expertise and from all over the world. Nanobiology courses use a variety of teaching methods appropriate for the subject. Integration exercises and group projects tie the different subjects together. Studying Nanobiology you will see how to apply knowledge of the core subjects to state-of-the-art research questions. Our joint programme combines the expertise of two leading institutes: Delft University of Technology (TU Delft) and Erasmus University's (bio)medical faculty: Erasmus University Medical Center (Erasmus MC).

Our programme

The three-year Nanobiology programme is fundamentally interdisciplinary, combining mathematics, biology, and physics. Courses will feature lectures, work groups, lab training and combinations of these. Students spend about 50% of their time in Delft and 50% in Rotterdam. The curriculum focuses on:

- Nanoscience and nanophysics as applied to biological systems;
- A quantitative understanding of biology as it relates to human health and disease.

Is this the right programme for you?

A Nanobiology student should be inquiring and inquisitive with a strong interest in mathematics, physics and biology. You want to make a contribution to groundbreaking research in the near future and you are willing to work hard to reach that goal. If you...

- have a high aptitude for mathematics, physics and biology;
- are a team player;
- have a good grasp of the English language;
- enjoy exploring a new area where biology, mathematics, physics and technology meet;
- want to make a difference in the future of biomedicine and related fundamental science;
- are not afraid of a challenge;

...then the bachelor Nanobiology is your programme!

Admission criteria

The bachelor programme in Nanobiology welcomes applicants with a Dutch vwo diploma:

- Nature and Health with Physics & Mathematics B;
- Nature and Technology with Biology;
- An other diploma with vwo Physics, Mathematics B, Biology and Chemistry;
- For international diplomas, please see: **www.admissions.tudelft.nl**.

Application procedure

For the 2020-2021 academic year Nanobiology will have a numerous fixus with a cap of 100 students. Students will be admitted based on a selection procedure. You can apply before January 15, 2020, to register for the selection procedure. Please note that the registration deadline for the Nanobiology selection procedure is set much earlier than for regular (non-numerus fixus) programmes. More information on the selection procedure can be found on the Nanobiology programme websites:

- **www.nb.bsc.tudelft.nl/**
- **www.eur.nl/en/bachelor/nanobiology**

Nanobiology = enrol at TU Delft via Studielink! The BSc Nanobiology is a joint degree programme organised by two universities: Erasmus University Rotterdam (EUR) and TU Delft. Please note that you only need to enrol at TU Delft via Studielink. You will automatically be enrolled at Erasmus University. This will allow you access to all facilities at both universities that you will need to get off to a successful start.

After your studies

After your bachelor's degree, the TU Delft and Erasmus MC offer you a joint Master's programme in Nanobiology. The two-year master's programme features exciting further studies and prepares you for a PhD or for a job as scientific researcher in Nanobiology and related fields. A bachelor's degree in Nanobiology will also give you access to the research masters Infection and Immunity, Molecular Medicine and Neuroscience in Rotterdam. In general, Nanobiology students go on to study in many related MSc programs, both in the Netherlands and abroad.

A Nanobiology student should be inquiring and inquisitive with a strong interest in **mathematics, physics and biology**.

A joint programme of TU Delft and Erasmus MC

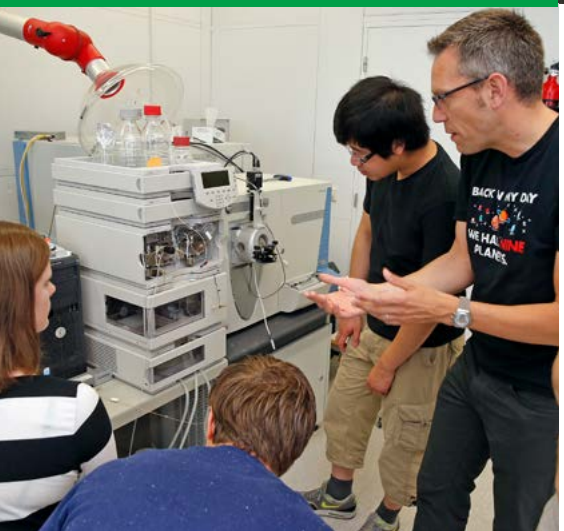
The best of both worlds!

'Mastering new knowledge at the border of scientific disciplines is exciting and well worth the effort it takes. Our goal is to prepare you to meet new challenges in biomedicine and nanotechnology or other related fields.'

Prof. Claire Wyman
Nanobiology Programme Director

Exploring a new area where biology, mathematics, physics and technology meet...

Technological advances have only recently enabled us to **study Biology at the nanoscale**.



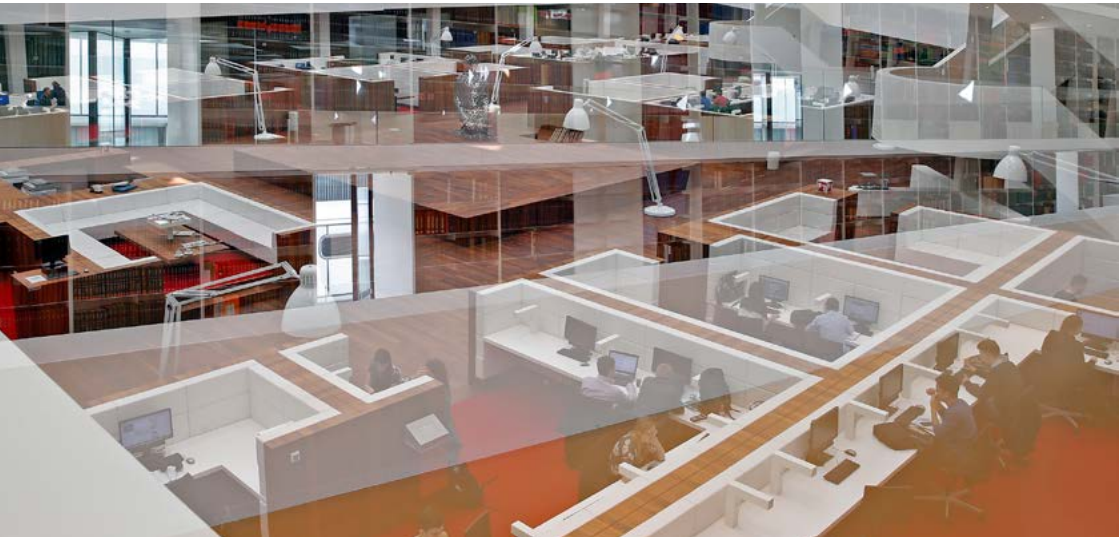
Nanobiology students will have the opportunity to work in **state-of-the-art research facilities**.

Apply before
January 15

Start in
September

Admission requirements
Dutch pre-university (VWO, NG+NT) certificate, or equivalent

BSc degree
in Nanobiology



Questions?

Please contact us by e-mail:

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info.nanobiology@erasmusmc.nl

or check out our websites:

www.nb.bsc.tudelft.nl

www.eur.nl/en/bachelor/nanobiology