

Postdoctoral Associate Positions in Synthetic Biology
Network Dynamics and Synthetic Biology Group of Andras Gyorgy
NYU Abu Dhabi

The Network Dynamics and Synthetic Biology group at New York University Abu Dhabi seeks highly motivated and collaborative applicants to fill multiple Postdoctoral Associate positions in synthetic biology. Projects will target one of the major bottlenecks in the rational design of synthetic biocircuits: scalability. The main goal is the development of a combined theoretical/experimental framework to accurately predict the complex behaviors that emerge when parts are interconnected, thus accounting for various sources of context-dependence, such as the sharing of limited resources. To this end, we will develop standardized probing parts, and create computational tools for the quantitative prediction of the behavior of synthetic gene circuits *in vivo* (mainly *E. coli*) and *in vitro* (cell-free extracts). Members of our interdisciplinary team will leverage experiments to inform modeling/theoretical analysis and vice versa. For more information, visit <http://netb.io/>.

Who should apply? The ideal candidate is self-motivated and hard-working with a PhD in synthetic biology, bioengineering, cellular biology, biophysics, quantitative/systems biology, or in a related field. The positions require experience in molecular and cell biology. Experience working with microplate readers and flow cytometers is desired, but not required. Successful candidates will take part in collaborative projects involving multiple laboratories from the US and Europe. Excellent communication skills in English, ability to work in multi-disciplinary teams, and scientific creativity are essential. We seek driven and enthusiastic individuals with a proven track record of independent research whose priority is to excel in their career while maintaining a healthy work-life balance.

How to apply? Applications will be accepted on a rolling basis and candidates will be considered until the positions are filled. To be considered, prepare in PDF format: (1) cover letter summarizing research experience and specific interest in the position; (2) curriculum vitae including full list of publications; and (3) the names and contact details of three references. Applications should be submitted to <https://apply.interfolio.com/46474>. If you have any questions, or you want to follow up on your application, please feel free to contact Andras Gyorgy at andras.gyorgy@nyu.edu.

Salary The positions provide salary higher than internationally competitive rates for postdoctoral positions, in addition to substantial benefits (generous housing, transportation and travel allowances, educational subsidies for children), together with full health insurance and retirement contributions. The UAE does not levy income tax. The initial appointment is for two years with the possibility of renewal based on performance. Start date is flexible.

About NYUAD NYU Abu Dhabi offers a stimulating research environment led by a distinguished research community and supported by state-of-the-art research facilities. Our students are drawn from around the world and surpass all traditional recruitment benchmarks, both US and global. NYU Abu Dhabi's highly selective liberal arts enterprise is complemented by an institute for advanced research, sponsoring cutting-edge projects across numerous disciplines. New York University has established itself as a Global Network University, a multi-site, organically connected network encompassing three foundational degree-granting campuses (New York, Abu Dhabi, and Shanghai) and eleven research and study-away sites across five continents. Faculty and students circulate within this global network in pursuit of common research interests and the promotion of cross-cultural and interdisciplinary solutions for problems both local and global.