



One (1) PhD / Postdoc Position

[Ref # PAR-0447]

The research group of Poirazi Lab of IMBB under the IDEAS grant, funded by NHMRC, Australia entitled “The role of memory engrams in the cortex” invites applications for one PhD Candidate or Postdoctoral fellow who will help to determine the importance of cortical engram cells in memory formation and storage and probe the role of cortical memory engrams in the generation and retrieval of a sensory-based memory. This project is a collaboration between the Florey Institute of Neuroscience and Mental Health in Melbourne, Australia (Prof. L. Palmer), and the University of Dublin, Ireland (Prof. T. Ryan).

Position Description:

The successful applicant will work on a multidisciplinary collaborative project aiming to determine the importance of cortical engram cells in memory formation and storage and probe the role of cortical memory engrams in the generation and retrieval of a sensory-based memory. The successful applicant will work on 1) behavioral and 2-photon imaging experiments in behaving mice and/or 2) help extend a computational circuit model ([Kastellakis et al., Cell Reports, 2016](#)) to dissect the role of subcellular mechanisms in cortical engram formation. The model will simulate the recorded cortical engrams in specific areas (auditory/prefrontal cortex).

Qualifications:

Postdoc position: The ideal candidate should have a Ph.D. in neuroscience or a related field. We welcome applications from candidates with diverse educational backgrounds, including biology, computational biology, physics, applied mathematics and engineering, that have demonstrated research experience in neuroscience. Applicants must have a proven publication record in neuroscience and be highly motivated and creative individuals who want to work in a dynamic, multidisciplinary research environment. They should be willing to interact with both experimental and theoretical neuroscientists. Previous experience should include in vivo recordings in rodents and/or solid programming background (Python, NEURON, Linux). Experience with experimental procedures/data collection and analysis is desirable. The ability to work in a team is essential.

	Evaluation criteria for Postdoc	Maximum score
1.	Ph.D. in neuroscience or a related field	20
2.	Publications in neuroscience	25
3.	Prior experience (in vivo recordings in rodents and/or solid programming background)	25
4.	Communications skills	10
5.	Reference letters	20
Total score		100

PhD position: The ideal candidate should have a Bachelor/MSc degree in neuroscience or a related field. We welcome applications from candidates with diverse educational backgrounds, including biology, computational biology, physics, applied mathematics and engineering, that have at least some training in neuroscience. Applicants must be highly motivated and creative individuals who want to work in a dynamic, multidisciplinary research environment. They should be willing to interact with both experimental and

theoretical neuroscientists. Previous experience including experiments with rodents and/or solid programming background (Python, NEURON, Linux) is desirable.

	Evaluation criteria for PhD	Maximum score
1.	MSc degree in neuroscience or a related field	25
2.	Bachelor degree in neuroscience or a related field	20
3.	Prior experience (in vivo recordings in rodents and/or solid programming background)	20
4.	Publications	10
5.	Communications skills	10
6.	Reference letters	15
Total score		100

Contract Duration: Full Time, Fixed Term, available from 1st June 2023 for 2-3 years (renewable)

Total budget:

- **Postdoc:** Commensurate with experience: 26k€ - 36k€ per annum (including benefits)
- **PhD student:** 18k€ per annum (including benefits)

Envisaged starting date: 1st June 2023

Application submission: Interested candidates should submit their application electronically by April 21, 2023

The application should consist of:

1. a CV
2. a motivation letter
3. a list of two-three referees (names and contact info)

Submission of applications: par0447@imbb.forth.gr

Evaluation procedure

Applications will be evaluated by a three-member evaluation committee. In case of interview procedure, candidates will be invited to participate in person or teleconference. The announcement of the results will be posted on the website of FORTH-IMBB. This publication confers the right to object to the results within 5 working days of the date of the results announcement.

The selected candidates will be notified personally regarding the success of his/her application and will be requested to submit certified copies of his/her degrees. In the event that the documents submitted to not agree with the original application the candidate will be dismissed.

GDPR Disclaimer

FORTH is compliant with all legal procedures for the processing of personal data as defined by the Regulation EU/2016/679 on the protection of natural persons with regard to the processing of personal data. FORTH processes the personal data and relevant supporting documents that you have submitted to us. Processing of that data is carried out exclusively for the needs and purposes of this specific call. Such data shall not be transmitted to or communicated to any third party unless required by law. FORTH retains the above data up to the announcement of the final results of the call, unless further process and reservation is required by law or for purposes of exercise, enforcement, prosecution of certain one's legitimate legal rights' as defined in the Regulation EU/2016/679 and/or in national law. We inform you that under the Regulation EU/2016/679 you have the rights to be informed about your personal data, access to, rectification and erasure, restrictions of process and objection to as provided by applicable regulation and national laws. We acknowledge also to you, that you have the right to file a complaint to the national Data Protection Authority. For any further information regarding exercise of your personal data protection rights, you may contact the Data Protection Officer at FORTH at dpo@admin.forth.gr.

You have the right to withdraw your application and consent for the processing of your personal data at any time. We inform you that, in this case, FORTH shall destroy such documents and/or supporting documents submitted and shall delete the related personal data.