# Application form for Assistant Professor and Associate Professor vacancies related to the sectorplan Medical Sciences

*Please write your answers to the questions below in this document and upload this with your application.*

*Questions 3-6 will be considered by the Talent Track Committee.*

*The appendix provides an overview of the goals defined within each area, which might help you answering the questions.*

1. **How will you contribute to the goals of the strategic theme as defined by the sectorplan? please use one or more of the specific goals indicated below.** (max 250 words)
2. **Describe your (preferred) role in an (innovation) team.** (max 150 words)
3. **a.) Key output: Describe up to three most significant contributions you made to science and/or health(care).**The description of each contribution should be no longer than a half page (Calibri 11), including citations.
For each contribution, indicate the following:

· the background that frames the scientific problem;

· the central finding(s);

· the influence of the finding(s) on the progress of science or the application of those finding(s) to health or technology; and

· your specific role in the described work.

· Figures, tables, or graphics are not allowed.

For each contribution, you may cite up to four publications or research products that are relevant to the contribution. If you are not the author of the product, indicate what your role or contribution was. Research products can include audio or video products; conference proceedings such as meeting abstracts, posters, or other presentations; patents; data and research materials; databases; educational aids or curricula; instruments or equipment; models; protocols; and software. Use hyperlinks and URLs to cite these items.

**b.) Key output: Five most relevant publications**
Provide the description of the publication culture in your field including your short publication summary (max 80 words).

Furthermore, provide a short description (max 80 words) of the impact the selected publications (from last 10 years) have and your role in them. Include the pdf’s of the mentioned publications in the attachment.

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1. **Describe your research group** (max 200 words); support the description with a list of the people you are hierarchically responsible for (having the yearly appraisal meeting with); Please also indicate co-supervision and funding. Include also previous members and PhD graduates by indicating the years as a member (in case of PhD candidate the year of graduation) and follow-up position.

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| --- | --- | --- | --- | --- | --- | --- | --- |
| Name | Position\*  | Department | If co-supervision, indicate with whom & ratio of your contribution to total supervision | Funding source | Funding from own group(distinguish funding by candidate (C); group member (G), other-outside the group (O)) | Years (in case of previous group members) | Follow-up positions (in case of previous group members) |
| A. Blue  | PhD candidate | xx | 75% candidate (co-promotor), 25 % XX (promotor) | H2020… | C | 2014-2016 | Project manager |
| B. Green | Postdoc | xx | 50% candidate, 25 % XX, 25 % YY | MSCA | G  | 2023-2025 |  |
|  |  |  |  |  |  |  |  |

\*UD / Postdoc/ Staff scientist/ Data scientist/ Research technician/ Research nurse or assistant / PhD candidates (as registered in Hora Finita)…..

1. **a.) Give an example of how you induced or supported a collaboration between professions, sectors or departments.** (max 150 words)

**b.) Describe your collaborations locally and (inter)nationally,** including your role in and aim of the collaboration; you may visualize your network (max 200 words).

1. **Leadership**

Describe your personal and professional leadership experience; Reflect on the development of your leadership skills. Here, you can also highlight the strengths that helped you to reach, and perhaps point out what makes you stand out. However, you can consider also areas for further development (max 300 words).

# Goals of the sectorplan by strategic area

Prevention

* Deepening and strengthening tertiary (indicated and disease-related) prevention in research and education
* Collecting, synthesizing, analyzing and using population-based health and prevention data in the region
* Development of projects on population health management, focussing on reduction of socioeconomic health disparities, prevention and lifestyle
* Bringing together research (and related education) on lifestyle and behavior for physical and mental health in the Radboudumc Prevention Hub
* Forming an active interdisciplinary community of university of applied sciences (HBO), university and umc with the focus on prevention and health
* Setting up and maintaining Fieldlabs in neighborhoods with socioeconomic health disparities to facilitate education and perform research aimed at the needs of volunteers, professionals and citizens in ythe neighborhoods.
* Supporting the academic workplace public health AMPHI to secure its role in linking policy, research and public health practice.
* Setting up and running a lifestyle advisory service chronic patients with lifestyle problems, which is run by medical, dental and biomedical science students.
* Developing an interdisciplinary master or master specialization 'Lifestyle and behavior' with access from biomedical sciences, medicine, psychology and education science

Data-driven innovation

**In order to facilitate the further rollout and the exploitation of all the potential of AI-based diagnostics, digital surgery, continuous monitoring and E-Health, Radboud university medical center wants to invest in**

* Real-time data management and analytics
* Innovative analytics of multi-modal data
* Ongoing clinical validation of AI models in development sites and living labs
* Training of the next generation of biomedical and computer scientists to successfully develop and implement data-driven health(care) applications
* Network care and scaling up with relevant partners in the chain of care.

Therapy development

**Improving preclinical infrastructure to accelerate therapy development for rare diseases**

* Development and standardization of therapy testing in human organ-on-chip models
* Development of RNA and genetic therapies beyond the preclinical stage
* Development of Advanced therapy medicinal products (ATMPs) including cell-based therapies

**Improving clinical infrastructure to accelerate therapy development for rare diseases**

* Design of “Therapy development pathways” for drug-repurposing, gene/RNA-based and cell-based therapies and facilitating their access.
* Development of methods to investigate the effects and implementation of person-centered therapies, so-called n=1 trials.
* Support to start-up and implementation of investigator-initiated treatment strategies and trials for rare disorders.

**Developing a knowledge network on academic drug development for rare diseases**

* Development of a knowledge network both internally in the Radboudumc and by realizing a Public Private Partnership ecosystem with external partners. This will strengthen the development of late stage TRLs (5-7).

**Building capacity to train professionals who can connect research, drug development and valorization.**

* Establishment of a new track on Therapy Development within the Master of Biomedical Sciences.
* Integration of entrepreneurship and knowledge on drug development in the educational programs for researchers and other professionals.