

USING ARTIFICIAL INTELLIGENCE AND PRE-OPERATIVE PLANNING TO IMPROVE PATIENT OUTCOMES

A Grant Program by the Portuguese Society of Orthopaedics and Traumatology and the Section for the Study of Novel Therapies and Technologies in Orthopaedics, in Collaboration with PeekMed.

The **Portuguese Society of Orthopaedics and Traumatology (SPOT)** and the Section for the Study of Novel Therapies and Technologies in Orthopaedics (SENTTO), in collaboration with PeekMed, are proud to announce a pioneering grant program focused on stimulating research in the field of Orthopaedics. This initiative is designed to enhance the integration of Artificial Intelligence (AI) in pre-operative planning, a crucial step in orthopaedic procedures.

The core objective of this grant is to foster innovative research projects that leverage AI technologies and pre-operative planning strategies and practices to attain superior patient outcomes. For example, improved implant sizing and positioning may be achieved by incorporating AI algorithms in the surgical planning. The aim is to seamlessly integrate traditional orthopaedic methods with the latest technological advances, thus raising the level of personalised care provided to patients.

This program invites applications from clinicians, researchers, and engineers passionate about transforming orthopaedic surgery through technology. Funded projects will have the opportunity to collaborate with experts from PeekMed, gaining access to advanced software and AI tools. This partnership aims to facilitate the translation of theoretical research into practical clinical applications, thereby making a tangible impact in orthopaedics.

This grant hopes to help entering a new era in orthopaedic surgery, where precision, efficiency, and personalised patient care are enhanced through the power of AI. We encourage all eligible candidates to apply and contribute to this exciting frontier of medical science.

Terms and Conditions for the Grant Program

1. INTRODUCTION

This document outlines the Terms and Conditions (T&C) for the Grant Program (the "Program") titled "Using Artificial Intelligence and Pre-operative Planning to Improve Patient Outcomes," sponsored by the Portuguese Society of Orthopaedics and Traumatology (SPOT), and the Section for the Study of Novel Therapies and Technologies in Orthopaedics (SENTTO), in collaboration with PeekMed. By participating in this Program, applicants agree to comply with these T&Cs.

2. ELIGIBILITY

- 2.1. Applicants must be clinicians, researchers, or engineers currently engaged in Orthopaedics.
- 2.2. Applicants can be of any nationality but must be affiliated with a recognised academic, healthcare, or research institution.
- 2.3. Preference in the grant selection process will be given to members of the SPOT.
- 2.4. Both individual and collaborative group applications are welcome. In the case of group applications, a principal investigator (PI) must be designated.
- 2.5. Projects must focus on integrating AI in pre-operative planning to improve patient outcomes in orthopaedic procedures.
- 2.6. Maximum project duration is 12 months.

3. APPLICATION PROCESS

- 3.1. Applications must include a detailed project proposal outlining the objectives, methodology, expected outcomes, and a clear demonstration of AI's use.
- 3.2. Applicants must submit a CV for all team members, emphasising relevant experience and qualifications.
- 3.3. Applications must be submitted before **September 30, 2024**.
- 3.4. Application should be submitted in the template provided.

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- 3.5. The Jury will consist of members from the SPOT Board of Directors, SENTTO, SPOT's Research Support Committee, and PeekMed.
- 3.6. Chosen projects will be announced during the Portuguese National Congress of Orthopaedics and Traumatology.

4. FUNDING

- 4.1. A total number of 2 projects will be funded.
- 4.2. Up to three licenses per project will be provided.
- 4.3. Funding will cover the use of PeekMed software for the project's duration.
- 4.4. Funding will not cover using other software, acquiring equipment, or hiring personnel.
- 4.5. Funded projects are expected to commence within six months of award notification and complete within the specified duration in the grant agreement.

5. COLLABORATION AND SUPPORT

- 5.1. Funded projects will receive, in addition to access to PeekMed's software and AI tools, technical support and insight from expert consultants.
- 5.2. Collaboration with PeekMed and other experts may involve data sharing, regular progress meetings, and co-authorship in resulting publications.

6. EVALUATION AND REPORTING

- 6.1. Projects will be evaluated based on their innovation, potential impact on patient outcomes, and general contribution to Orthopaedics.
- 6.2. A final report is due after the project, summarising findings, outcomes, and clinical applications.
- 6.3. Publication of study results is encouraged. The support from the SPOT and PeekMed must be acknowledged in the published research paper.

7. INTELLECTUAL PROPERTY

7.1. Intellectual property generated from funded projects will be subject to agreements between the grantees, SPOT, PeekMed, and any other involved parties.

8. COMPLIANCE AND ETHICAL CONSIDERATIONS

8.1. All projects must adhere to ethical standards in medical research, including patient confidentiality and informed consent.

8.2. Projects requiring ethical approval must provide evidence of such approval from the relevant authority or institutional review board.

8.3. In addition, the SPOT's Ethics Committee should approve the research protocol.

9. TERMINATION AND WITHDRAWAL

9.1. The SPOT reserves the right to terminate funding for any project that fails to comply with these T&Cs, shows insufficient progress, or deviates significantly from the proposed objectives.

10. AMENDMENTS

10.1. SPOT and PeekMed reserve the right to amend these T&C. Any changes will be communicated to the grantees in writing.

11. APPLICATION AND INQUIRIES

11.1. For application forms, submission deadlines, and further inquiries, please visit the SPOT and PeekMed websites or contact these entities directly.