APPEL A CANDIDATURES POUR LES PROJETS DE THESE DOC2AMU 2018

**Ouverture du troisième appel à candidatures aux projets de thèses du programme doctoral DOC2AMU d’Aix-Marseille Université!**

Jeunes en dernière année, ou diplômés, de Master, jeunes chercheurs, vous avez jusqu’au **9 avril 2018** pour soumettre votre dossier de candidature afin de réaliser votre thèse de doctorat dans le cadre du programme COFUND DOC2AMU à Aix-Marseille Université (AMU). Pour information, le programme allouera 30 contrats doctoraux, d’une durée de 3 ans chacun, au cours des 3 appels à candidatures lancés jusqu’en 2018 (1 appel à candidatures par an).

Basés sur des principes d’interdisciplinarité, d’intersectorialité et d’ouverture internationale, les projets de thèse proposés dans le cadre de ces appels à candidatures portent sur l’un de six axes thématiques :

* Les réseaux
* Le big data
* La mondialisation
* La nano-santé
* Le changement climatique
* L’imagerie

Cette année, 23 projets sont publiés dans le cadre de l’appel à candidatures :

* Quantitative Ultrasonic Imaging in Diagnosis of Children Bone Diseases
* Deciphering biodiversity and ecological role of viruses infecting microalgae
* Hydro-economic modelling of the North western Saharan aquifer system
* OVERDOSE
* DESiRE - DoctoratE on Solar REctennas
* Improved in vivo diagnosis of bone quality in the context of osteoporosis
* BigSF
* Bioprinting by Laser induced forward transfert (LIFT) for modelling modeling skeletal muscle physiopathology
* Isolation and benchmarking of therapeutic antibody candidates using single molecule mechanical approaches
* Deep Learning methods applied to large astrophysical imaging surveys
* Modelling PTEN & TCR signaling network in thymocytes
* Studies for improved recovery, measurement and recycling of xenon in clinical anaesthesia
* INTRINSICALLY DISORDERED PROTEINS AT INTERFACES
* Towards a Computational Model of Social Skills for Human-Computer Interaction (SO-HUMAN)
* Control of hybrid systems based heat pump and using renewable energy
* 3D optical microscopy for quantifying T lymphocyte activation
* Temporal networks: from network theory to brain science and neurology
* Active response of Red Blood Cells to mechanical stress in splenic filtration
* Critical raw ELEment Bio-Extraction (CELEBEX)
* Physical ultrasounds in gene therapy of Rett syndrom
* integrative study of the energy metabolism of H2 in Desulfovibrio fructosovorans: functional and molecular characterization of Hnd hydrogenase
* SCRUM: Spinal cord and Cerebral tissue alterations encountered in Rugby – Use of Magnetic resonance imaging, Mobility, bioMechanical simulations and external Markers to characterize the Microtraumatisms
* Smart interrogation of mechanosensing in T cell activation

Retrouvez toutes les informations utiles sur ce programme et les projets de thèses auxquels vous pouvez postuler directement sur le site <http://doc2amu.univ-amu.fr/en/current-calls>

Vous pourrez également poser toutes vos questions à l’équipe de management du programme DOC2AMU depuis ce site.

DOC2AMU est un programme doctoral cofinancé par le Conseil Régional PACA et la Commission Européenne dans le cadre des actions H2020 COFUND Marie-Skłodowska-Curie GA n°713750, avec un soutien financier de la part de la fondation A\*MIDEX.

*CALL FOR APPLICATIONS : DOC2AMU 2018 THESIS PROJECTS*

*Opening of the third call for applications to Aix-Marseille University’s DOC2AMU doctoral programme!*

*Early-stage researchers and Master degree holders, you have until April 9th, 2018 to submit your application to undertake a doctoral thesis with the COFUND DOC2AMU programme at Aix-Marseille University (AMU). The programme will allocate 30 3-year contracts within the 3 calls for applications launched until 2018 (one call for applications per year).*

*Based on principles of interdisciplinarity, intersectorality and international openness, the thesis projects offered within these calls for applications relate to one of six research axes:*

*- Networks*

*- Big data*

*- Globalization*

*- Nano-health*

*- Climate change*

*- Imaging*

*This year, 23 projects are published in the Call for Candidates:*

* *Quantitative Ultrasonic Imaging in Diagnosis of Children Bone Diseases*
* *Deciphering biodiversity and ecological role of viruses infecting microalgae*
* *Hydro-economic modelling of the North western Saharan aquifer system*
* *OVERDOSE*
* *DESiRE - DoctoratE on Solar REctennas*
* *Improved in vivo diagnosis of bone quality in the context of osteoporosis*
* *BigSF*
* *Bioprinting by Laser induced forward transfert (LIFT) for modelling modeling skeletal muscle physiopathology*
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* *Deep Learning methods applied to large astrophysical imaging surveys*
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* *INTRINSICALLY DISORDERED PROTEINS AT INTERFACES*
* *Towards a Computational Model of Social Skills for Human-Computer Interaction (SO-HUMAN)*
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* *Smart interrogation of mechanosensing in T cell activation*

*Find all the useful information about the programme and the thesis projects you can apply to directly on the website:* [*http://doc2amu.univ-amu.fr/en/current-calls*](http://doc2amu.univ-amu.fr/en/current-calls)

*You can also ask your questions to the DOC2AMU programme management team from this website.*

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