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## Impulsion – Call for post-doc applications

The project **Optimal Transport and Congestion Games** has been awarded funding by IDEXLyon, in the framework of the **Impulsion** program, whose goal is to launch the research activities of new scholars recently arrived in the universities of the Lyon area. This funding will allow to hire a post-doc researcher for 12 to 18 months. The selected post-doc will join the **Institut Camille Jordan**, in the research group *Modélisation Mathématique et Calcul Scientifique*, and be based in the Lyon 1 campus in La Doua. Applications by recent PhDs are welcome and should be sent to the PI at the email address [santambrogio@math.univ-lyon1.fr](mailto:santambrogio@math.univ-lyon1.fr) by **January 15th, 2019**. The selection will be done during January, and will come out with a ranking. The first ranked applicant will be contacted with a post-doc offer at the beginning of February.

- **Research topics:** the applicant is encouraged to suggest a research project, to be developed in collaboration with the PI, on the broad subjects of optimal transport and congestion effects, including Mean Field Games, crowd motion models, gradient flows in the Wasserstein spaces, population dynamics equations with cross diffusion. . . The precise research program of the project can be found [here](#).
- **Duration:** the post-doctoral contract can be established for a duration between 12 and 18 months, starting not earlier than April 1st, 2019, and finishing not later than December 31st, 2020.
- **Eligibility:** holding a Phd at the starting date of the contract, obtained not more than 5 years before.
- **Salary:** salary will be adjusted to the experience and to the duration of the contract, and will range from 1860 to 2340 “net” euros/month.<sup>1</sup> For more precise information, applicants can contact in advance the PI indicating the date of PhD obtention and the intended dates of the post-doc contract.
- **Teaching duties:** the position comes with no teaching load.
- **Research funds:** the succesful applicant will be entitled to use research funds from this same project and from the IUF Grant of the PI for visits, invitations, and research-related expenses. The available amount can be non-negligible (up to 3000 euros/year), and will be communicated in the post-doc offer.
- **Application:** please send by email a CV, a list of publications, a research statement including the intended research program for this post-doc, and a cover letter. The cover letter should contains the proposed dates for the doctoral contract, and the contact details of two scholars who could be contacted for reference purposes, if needed.

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<sup>1</sup>“Net” means the standard net notion in France so far: after social contributions, before income tax. Income tax, whose amount strongly depends on the family situation of the employee and ranges from 0% to 7.5% approx on salaries of this order of magnitude, used to be paid in France after declaring in May of the year  $n + 1$  all revenues of the year  $n$ ; things will change in January 2019 and it will be directly deducted from the salary, and the amount will be adjusted after the yearly declaration. In contacting the PI it is also possible to have an estimation about income tax, if details are provided.