**Grau de Ciències Ambientals**

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# FITXA DEL PLA DE TREBALL DE L'ALUMNAT DE CIÈNCIES AMBIENTALS

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|---|---|---|---|
| Empresa o organisme: | ICTA-UAB | CIF: | Q0818002H |
| Activitat que desenvolupa: | Treball de camp sobre aparcament de bicis. (veure descripció adjunt) | | |
| Persona de contacte: | Jordi Honey-Roses | | |
| Adreça: | | C.P. | |
| Població: | | web | www.citylabbcn.org |
| e.mail: | Jordi.honey@uab.cat | Telèfon: | 687 49 3135 |

| Proposta de feines a dur a terme per l'alumne/a: | | Previsió de dedicació (aproximat %) |
|---|---|---|
| 1. | Veure descripció adjunt | |
| 2. | | |
| 3. | | |
| 4. | | |
| 5. | | |

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|---|---|
| Període de pràctiques | Gener 2022-Juny 2022 |
| Horari (aproximat) | Flexible |

| | | |
|---|---|---|
| Remuneració | **Si** ☐ SI | No ☐ |

Data: 15 de desembre 2021 Signatura i segell del responsable:Jordi Honey-Roses

# CALL FOR APPLICATIONS
# INTERNSHIP ON BICYCLE PARKING
# CITY LAB BARCELONA
# DECEMBER 2021

City Lab Barcelona, a research team at the Institute for Environmental Science and Technology (ICTA-UAB), is looking to hire an intern to develop a citizen-science tool that would facilitate the collection of data on bicycle parking. This work will build on an existing research project on this topic, in which the research team has collected data on bike parking occupancy and rotation rates in each of the ten districts in Barcelona. We are now interested in developing a de-centralized or wiki-approach to data collection, in which we empower urban cyclists and activists to contribute to a public data-set on bike parking in the city. We are not interested in developing a de-centralized or wiki-approach to data collection, in which we empower urban cyclists and activists to contribute to a public data-set on bike parking in the city. Our effort will be open and inclusive, allowing any user from the public to consult and use the information generated.

The project has both practical and research aims. We want to contribute to the conversation on bicycle parking in the City of Barcelona, pushing the city to develop a more sophisticated strategy and approach for accommodating cyclists in the city. Our work begins with an assessment of on-street parking, however ultimately a comprehensive bike parking strategy must address both on and off-street parking. The tool may evolve to include off-street parking facilities.

Objectives:

- Obtain a clear picture of on-street bicycle parking patterns in Barcelona.
- Develop a tool for anyone to contribute data on bike parking at any of the on-street anchorage points in the city
- Provide data and information to everyday cyclists, neighbours, cycling activists, city officials and researchers.
- Contribute to the development of a bicycle parking strategy in Barcelona.
- Advance the science and understanding of on-street bike parking in cities.

How

- Create a citizen-science data collection platform for bicycle parking in Barcelona.

Tasks

Before building a tool, we must do our due diligence and understand the existing tools available that might be able to fit our needs. In particular, we should:

- study the spatially based citizen science platforms and tools that are already available.
- propose ways to adopt existing tools to collect bike parking data needed.
- consider the pros and cons of the existing tools and data collection approaches.
- consider the pros and cons of creating our own platform.

- consider the possibilities of integrating our platform to existing transit apps in Barcelona, such as Smou. Contact possible partners to explore interest in collaboration and integration
- A major task will be updating, cleaning and managing the spatial data of bike parking locations provided by the city. Our field work has demonstrated that this dataset is incomplete, outdated and with errors of omission and commission. Many times this is not simply because of sloppiness, but simply because there are genuine changes in street designs (often for the better!), rendering the SHP file available incomplete.. Therefore a big part of the job will be to work with the city (and other partners) to obtain the most recent data file; AND find a way to facilitate updates.

The tools we use/adopt depends on our precise needs. Essential features of the data collection platform would be:

- Fast, easy and user-friendly
- Web-based + Phone app
- No sign-in necessary – although possible
- Capable of filtering real people from robots
- Allow for some data to be added at each step, without requiring the completion of an entire form/survey
- Data inputs
    - Number of bikes/items
    - # Shared bikes
    - # Kids bikes
    - # Abandoned
    - Photo
    - Comments section
- The data from the web platform should be open to all and available for the public to consult and download.
- It should be updated in real time.
- Allow for easy updating
- Each bicycle parking spot should show:
    - Photo – if available
    - Historic mean of occupancy
    - Each past observation – occupancy – time and date

Qualifications
The successful candidate must be an enrolled student at the Universitat Autonoma de Barcelona. They must be available for 10 hours a week for at least one year. The ideal candidate would be an active member of the cycling community and be familiar with the development of digital tools, database management, phone apps, or have related programing skills.

For questions or inquiries, contact Jordi Honey-Rosés, Senior Researcher,

Jordi.honey@uab.cat Submit a letter describing your interest in this position and a CV

by December 22nd 2021.