

<b>TITLE</b>	<b>Using Microbial Dark Matter and Computational Models to Streamline Synthetic Nitrogenase Pathways (Eol -TSP3-05)</b>
<b>RESEARCHER PROFILE</b>	Postdoctoral: First Stage Researcher (R1) or Recognised Researcher (R2)
<b>TYPE OF CONTRACT</b>	Temporary contract of 2 years
<b>IP</b>	<b>Jaime Huerta-Cepas</b>
<b>GROUP INFORMATION</b>	<a href="http://www.cbgp.upm.es/index.php/es/informacion-cientifica/csbgp/genomica-evolutiva-computacional">http://www.cbgp.upm.es/index.php/es/informacion-cientifica/csbgp/genomica-evolutiva-computacional</a>
<b>OFFER DETAILS</b>	<a href="http://compgenomics.org/static/offers/2019.postdoc_Metagenomics_Nitrogenase.pdf">http://compgenomics.org/static/offers/2019.postdoc_Metagenomics_Nitrogenase.pdf</a>
<b>MAIN RESPONSABILITIES</b>	The selected candidate will work in the context of the project entitled “Using Microbial Dark Matter and Computational Models to Streamline Synthetic Nitrogenase Pathways”, in collaboration with other experimental and computational groups at CBGP. Planned tasks involve: i) metagenomics data mining and global survey of novel nitrogen fixing gene variants from environmental samples, ii) evolutionary analysis of functionally divergent orthologs representing novel branches from different nitrogenase components, and iii) target enrichment experiments to expand the number of observed nitrogenase gene variants.
<b>SPECIFIC OFFER REQUIREMENTS</b>	<ul style="list-style-type: none"> <li>- PhD in Computational Biology or a similar discipline</li> <li>- Experience in genomic data analysis (i.e. Python scripting, R analysis, Data visualization, Linux environments)</li> <li>- Knowledge in Evolutionary Biology and Molecular Phylogeny</li> <li>- Fluent in English</li> </ul> <p><u>Recommended additional skills:</u></p> <ul style="list-style-type: none"> <li>- Knowledge in Nitrogen metabolism</li> <li>- Knowledge in Microbiology or related areas</li> <li>- Experience in the design of target enrichment panels</li> <li>- Experience with HPC systems and big data analysis</li> </ul>
<b>REQUIRED QUALIFICATIONS</b>	- PhD in Computational Biology or a similar discipline
<b>ELIGIBILITY CRITERIA</b>	By research experience and previous work on similar projects.