

26 June 2019

**Post-doctoral position**  
**Fusion of aerial thermal and satellite multi-spectral**  
**imaging for remote sensing-based irrigation**  
**management**



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<b>Topic</b>	A postdoctoral position is available in remote sensing for precision irrigation – combining high resolution aerial thermal-images with satellite VIS-NIR data to support irrigation decision.
<b>Brief description</b>	Satellite thermal imaging have coarse spatial resolution and aerial platforms require substantial financial investments, which may inhibit their large-scale adoption. The study aims to increase the capacity of aerial thermal imaging by fusing satellite multi-spectral images in the VIS-NIR range. The study incorporates image processing and "big-data" analysis techniques (deep and machine learning)
<b>Role of candidate</b>	The successful candidate is expected to develop semi-automatic tools for near-real-time acquisition and analysis of aerial and satellite images of different characteristics, lead the research, and summarize the results in reports and scientific publications.
<b>Funding</b>	The position is part of a funded multi-disciplinary project of the Chief scientist of the Ministry of Agriculture, Israel.  Funding is guaranteed for 12 months, with a possible extension for a second year.
<b>Desired skills &amp; experience</b>	<ul style="list-style-type: none"><li>• PhD in agriculture, geography, engineering, computer science, mathematics, or a related field with strong background in image analysis</li><li>• Adv. Experience with programming software (e.g., R/Matlab/Python)</li><li>• Adv. Experience with machine learning techniques</li></ul>
<b>Start date</b>	Flexible, preferably August 2019
<b>Application</b>	Qualified applicants (PhD) are requested to send: <ul style="list-style-type: none"><li>• Letter of intent including a description of technical expertise</li><li>• CV</li><li>• Copy of the PhD dissertation abstract</li><li>• Names and emails of 2 referees</li></ul>
<b>Contact</b>	Dr. Yafit Cohen Institute of Agricultural Engineering Agricultural Research Organization, Volcani center, Israel yafitush@volcani.agri.gov.il +972-50-6220596 <a href="http://www.agri.gov.il/people/710.aspx">http://www.agri.gov.il/people/710.aspx</a>

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