



2014-IPR-F-000-3014

**Energy yield prediction and monitoring for photovoltaic modules**

<p><b>Position for:</b></p> <p>Trainee TYPE I and/or II</p>	<p><b><u>Short description of activity:</u></b>          The JRC's European Solar Test Installation (ESTI) is a European reference lab for performance measurement of innovative photovoltaic technologies. For investors in PV systems it is critical to have an accurate estimate of energy output (kWh) as opposed to simply installed capacity (kW). The JRC's PVGIS system incorporates a reliable model of power output, but scope exists to extend its capabilities and validation. The proposed project will involve applying such models and validating their output based on monitoring data for different technologies and for different geographical locations.</p> <p><b><u>Qualifications:</u></b>          The candidate should be a recent graduate or an undergraduate in the last 1-2 years of university education in the fields of science or engineering. Good knowledge of one or more of the following areas is a pre-requisite: principles of photovoltaic solar energy, electrical performance measurements, programming skills and statistics.</p> <p>English language (B2 level).</p> <p><b><u>For general eligibility requirements, please read the rules- see below.</u></b></p>
<p><b>Institute Unit</b></p>	<p>Institute for Energy and Transport          Renewable Energy Unit          749 PVRES</p> <p>Further information:  <a href="http://re.jrc.ec.europa.eu/esti">http://re.jrc.ec.europa.eu/esti</a></p>
<p><b>Indicative duration</b></p>	<p>5 months</p>
<p><b>Preferred starting date</b></p>	<p>01/09/2014</p>
<p><b>JRC Site</b></p>	<p>Ispra</p>
<p><b>Country</b></p>	<p>Italy</p>
<p><b><u>Rules, general eligibility requirements</u></b></p>	<p>Trainees:  <a href="http://ec.europa.eu/dgs/jrc/index.cfm?id=5860">http://ec.europa.eu/dgs/jrc/index.cfm?id=5860</a></p>