

## Program for Postdoctoral Fellowship Awards in Agriculture

<i>Internal Ref #</i> <b>27</b>	<b>Title of Research Project:</b> Effects of using synthetic polymers on soil structure and hydraulic conductivity of clayey soils	
<b>Project Leader:</b> Meni Ben-Hur		Email : <a href="mailto:meni@volcani.agri.gov.il">meni@volcani.agri.gov.il</a> Phone : 03-9683634
<b>Institute:</b> Soil, Water and Environmental Sciences, Volcani Center		
<b>Department:</b> Soil chemistry, plant nutrition and microbiology		
<b>The research team</b> (other scientists):		
<b>Short Description of Research Project</b> (3-5 lines): Under intensive agriculture and irrigation with marginal water (saline water and treated wastewater), the hydraulic conductivity of clayey soils could be very low. In this case, the drainage and aeration of the soils could be low and these could decrease the crops yields. The objective of the study is to use different synthetic polymers to stabilize the soil structure and prevent the decline of the hydraulic properties of the soil. The study will include column and rainfall simulator studies with disturbed soil samples and field trail.		
Required Qualifications of Visiting Scientist: <b>Education:</b> Holding a PhD/DSc degree in Soil Science with specialization in soil physics and/or soil physical chemistry and/or soil conservation.  <b>Scientific Experience:</b> The candidate is expected to have experience in basic and applied research, at both laboratory and field scale, aimed at studying various soil physical properties and the mechanisms involved.  <b>Abilities and Skills:</b> The candidate is expected to manage a research program and be able to analyze, interpret and summaries experimental results.  Language - Proficient in English (spoken, written and reading).		