Supplementary Information:

Microfluidic magnetic self-assembly at liquid-liquid interfaces

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Figure S1. A plot of the magnetic field, $H$. The $x$ and $y$ axes are in units of mm. The origin on this plot is situated at the center of the magnet. The apex of the liquid-liquid interface in our experiments is in the range of 0.8 – 1.4 mm from the north or south poles of the permanent magnet. This plot is generated using COMSOL Multiphysics.
Supplementary Information Movies Captions:

Supplementary Information Movie 1:
Video shows the self-assembly of paramagnetic microparticles. Here, we have used ATPS 4, so the liquid-liquid interfacial tension $\gamma = 0.082 \text{ mN/m}$ between the DEX phase (top) and PEG phase (bottom). The magnet distance $\ell_m = 1,400 \mu\text{m}$. Scale bar is 50 $\mu\text{m}$.