



## The Bio-Integrated Farm

A Revolutionary Permaculture-Based System  
Using Greenhouses, Ponds, Compost Piles,  
Aquaponics, Chickens, and More

Shawn Jadrnicek with Stephanie  
Jadrnicek

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“ **A must-read, twenty-first-century manual for managing natural resources and bringing system farming and permaculture to a whole new level.** ”

Permaculture designer and farmer Shawn Jadrnicek is a master at engaging the free forces of nature to create sustainable food production systems. He weaves water, wind, sunlight, convection, gravity, and decomposition into his projects, showing us how to create sustenance in our landscapes with little effort or work on our part.

In *The Bio-Integrated Farm*, Jadrnicek's groundbreaking insights into permaculture go beyond the term's philosophical foundation to create hardworking farm-scale designs. Holding his designs to a higher standard, Jadrnicek's components serve at least seven functions, while classical permaculture theory only seeks at least two functions. With every additional function that a component performs, the design becomes more advanced and saves even more energy.

A bio-integrated greenhouse, for example, doesn't just extend the season for growing vegetables; it also serves as a rainwater collector, a pond site, an aquaponics system, and a heat generator. *The Bio-Integrated Farm* offers in-depth information about designing and building a wide range of bio-integrated projects including greenhouses, compost heat extraction, pastured chicken systems, cover cropping, and more.

Jadrnicek focuses on his experience as farm manager at the Clemson University Student Organic Farm and at his residence in the foothills of the Blue Ridge Mountains. He created permaculture patterns that simplified the operation of the 125-share CSA farm while reducing reliance on outside resources. His landscape requires only the labor of harvesting, and the only outside input he buys is a small amount of chicken feed. Jadrnicek's prevalent theme is using water to do the work. Although applicable in many climates, his designs are particularly important for areas coping with water scarcity.

If you are interested in spending less time maintaining your farm or homestead, if you want to increase productivity, if you want to decrease your dependency on outside resources, or if you are curious about how to inexpensively extend your growing season, then this book is for you. The process is simple—put nature to work through intelligent design.



**Shawn Jadrnicek** has nourished his interest in sustainability through work as an organic farmer, nursery grower, extension agent, arborist, and landscaper, and now as the manager of Clemson University's Student Organic Farm. From his earliest permaculture experiments with no-till farming in the Santa Cruz Mountains of California to his highly functional bio-integrated designs in the Southeast, Shawn has learned how to cultivate food in a variety of climates and landscapes. He shares his creative solutions through teaching, consulting, and design work.

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